

TA-DM1000ES

SERVICE MANUAL

US Model
Canadian Model



This set is the master digital control center in DLS-M1.

DST

SPECIFICATIONS

Amplifier Section

Frequency response	10 Hz – 20 kHz ±0.1dB
Input sensitivity	150 mV, 50 kilo ohms
S/N	90 dB
Output voltage and output impedance	REC OUT: 150 mV, 470 ohms PRE OUT: 1.3 V, 50 ohms (nominal) HEADPHONES: 15 mV, 8 ohms; accepts low and high impedance headphones
Total harmonic distortion	Less than 0.015%

Video Section

Frequency response	50 Hz – 4.0 MHz
Video input sensitivity and input impedance	1 Vp-p, 75 ohms
Video output voltage and output impedance	1 Vp-p, 75 ohms

Converter Section

A/D converter	Type: High Density Linear Converter Sampling frequency: 44.1 kHz
PCM encoding system	CD format
RF audio transmission frequency width/channel	3 MHz
RF audio modulation system	2 PSK modulation
RF video transmission frequency width/channel	10 MHz

General

Power requirements	120 V AC, 60 Hz
Power consumption	Power on: 35 watts Standby: 12 watts
AC outlets	Six switched, total 900 watts
Dimensions (w/h/d)	Approx. 430 × 123 × 360 mm (17 × 4 7/8 × 14 1/4 inches)
Weight	Approx. 7.3 kg (16 lb 2 oz)

MASTER DIGITAL CONTROL CENTER
SONY[®]



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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

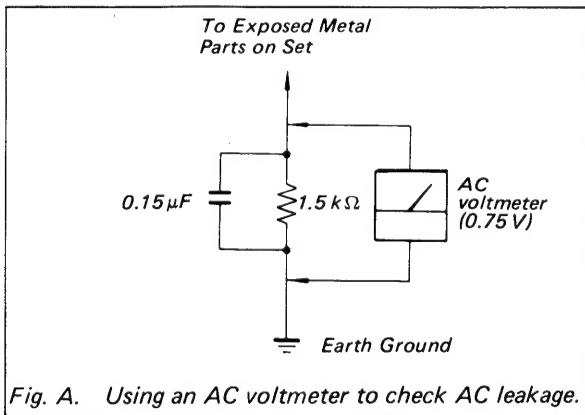


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from
instruction manual.

SECTION 1

GENERAL

Introduction

How to Use This Manual

This manual is arranged to help you quickly find the information you need for the operation of the Digital Signal Transfer™ System. This manual consists of the following sections.

- 1 Preliminaries
- 2 Connection
- 3 Before using the RM-P1 Remote Commander
- 4 Playback/reception
- 5 Recording
- 6 Other information

To become familiar with the Digital Signal Transfer™ System
Start reading from the "Preliminaries". "Overview of the Digital Signal Transfer™ System" gives an example to explain how to use this system.

If you have the master digital control center, Digital Link™ Decoder Amplifier and other equipment already connected
Start from "Before using the RM-P1 Remote Commander".

If the master digital control center, Digital Link™ Decoder Amplifier and other equipment have not been connected
Start from "Connection".

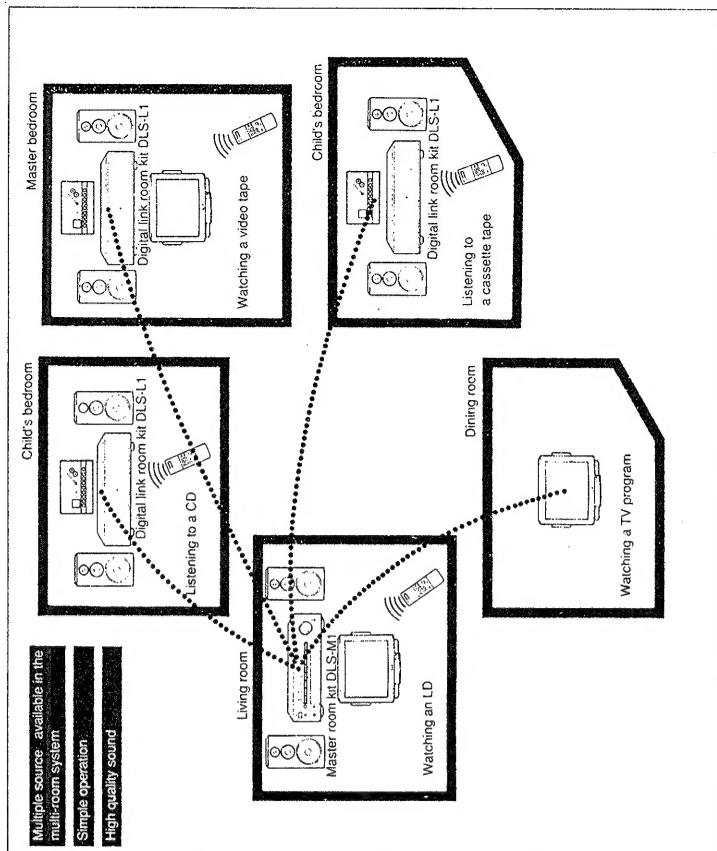
Overview of the Digital Signal Transfer™ (DST) System

Typical Configuration

The concept for DIGITAL SIGNAL TRANSFER™ System originated from a desire to develop a way to easily enjoy music or movie with a simple operation in any room of the house.

- Remote Commander RM-P1
- Size AA (R6) battery (3)
- F-type connector (2)
- Sony Infrared Remote Control System cable - audio type, 4-pin (6)
- Sony Infrared Remote Control System cable - video type, mini (2)
- Spacer (1)
- Screwdriver (1); to adjust the ROOM NUMBER switch on the TA-DL10C Digital Link™ Decoder Amplifier

- 1 About the text of this manual
 - The supplied RM-P1 Remote Commander is always identified by its model name to avoid confusion with the remote commanders supplied for other equipment. In the text, name of buttons and switches are written in capital letters or their symbol marks:
Example: Press CD 1.
- 2 About the text of this manual
 - The operation explained in the text is based on the operation with the RM-P1 Remote Commander. If an operation is not possible with the RM-P1 Remote Commander, a note such as "This operation cannot be performed by the RM-P1 Remote Commander." appears in the text.



Overview of the Digital Signal Transfer™ (DST) System

Understanding the DST System

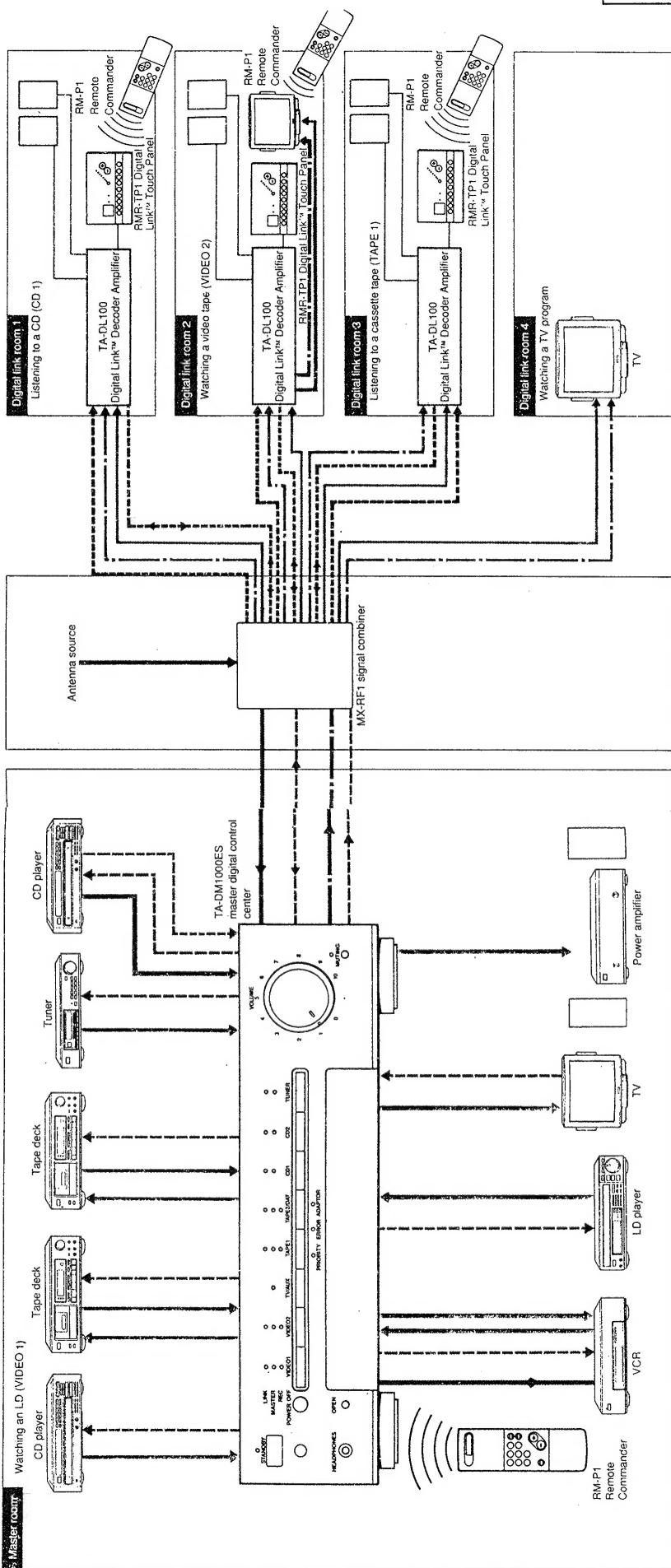
The DST system transmits up to 3 digital audio signals, 1 analog audio/video signal and remote control signals through a 75-ohm coaxial cable*. This system consists of the following main equipment:

- Master digital control center: transmits audio, video and remote control signals.
- DIGITAL LINK™ Decoder Amplifier: decodes audio and remote control signals transmitted from the master digital control center and transmits remote control signals.

Transmitting audio signals digitally assures high quality sound, without experiencing the type of degradation, distortion or signal loss associated with conventional hardware systems.

The following configuration shows the signal transmission in the DSI system.

Analog video and audio signals
Digital audio signal
RF signal

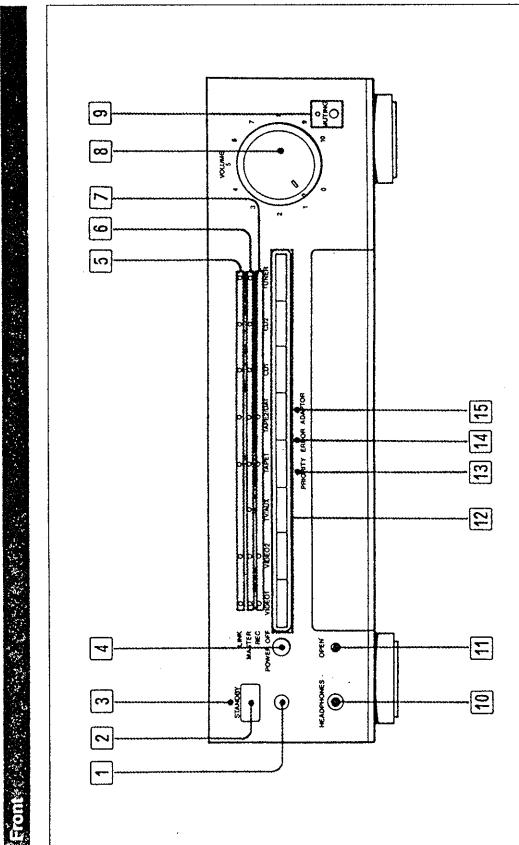


Overview of the Digital Signal Transfer™ (DST) System

Precautions

Features of the DST system	Other Features	On Safety	On Installation
<ul style="list-style-type: none"> Multi-room and multiple source transmission Simultaneous transmission of 3 digital audio sources plus the monaural audio signal of a video source The DST system transmits simultaneously 3 audio sources as well as 1 video source. Three audio sources are transmitted digitally. One of the audio sources is input at 44.1 kHz, and the other audio sources are transmitted by first being converted from analog to digital. A video source is transmitted by the amplitude modulation. System expandability 	<ul style="list-style-type: none"> Intelligent Remote Commander RM-P1 Remote Commander (supplied) allows you to control the system whether Sony or other manufacturers' equipment is connected. Once you have programmed the remote control signals on the master digital control center, the RM-P1 Remote Commander enables not only program source selections and level settings but also a variety of advanced operations such as fast-forwarding of tape. In addition, the RM-P1 Remote Commander is provided with a display window which allows you to confirm the selected program source and the transmission of remote control signals. 	<ul style="list-style-type: none"> Operate the unit only on 120V AC, 60 Hz. Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further. Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself. One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer. Do not throw away the carton and packing material. It will be an ideal container when transporting the unit. 	<ul style="list-style-type: none"> To prevent internal heat built-up in the unit Place the unit in a location with adequate air circulation. Do not install the unit: <ul style="list-style-type: none"> near heat sources such as radiator or air ducts. in a place subject to direct sunlight, excessive dust, mechanical vibration or shock. Do not place anything on the top of the cabinet. The top ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.
<ul style="list-style-type: none"> Independent operation 	<ul style="list-style-type: none"> Priority to perform various operations 	<ul style="list-style-type: none"> Before making program source connections, be sure to unplug the unit. 	<p>For the Customers in the U.S.A.</p> <p>For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.</p>
<ul style="list-style-type: none"> Digital Link™ Decoder Amplifier can be connected to the DST system as auxiliary locations of control. 	<ul style="list-style-type: none"> Visible status information 	<p>On Cleaning the Cabinet</p> <p>Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.</p>	<ul style="list-style-type: none"> Indicators showing the status of the DST system are provided on the master digital control center.
<ul style="list-style-type: none"> Digital transmission through 75-ohm coaxial cable High quality of sound Signal transmission through a single cable Efficient installation 	<ul style="list-style-type: none"> Digital transmission of the DST system reproduces high quality sound, reducing the distortion and signal noise inherent in conventional analog multi-room systems. Audio, video and remote control signals are transmitted through a single 75-ohm coaxial cable. The DST system uses readily available 75-ohm coaxial cable as transmission carrier. 		

Parts Identification for Master Digital Control Center



Refer to the pages indicated for details.

① IR SENSOR

Put the head of another manufacturer's remote commander to program its remote control signal on this master digital control center. 34

② Remote control sensor

Point the head of the RM-P1 Remote Commander (supplied) here.

③ STANDBY indicator

Blinks for about 10 seconds when the power of the system turns on, then goes off. Lights when the power of the system turns off.

④ POWER OFF button

Press to turn off the power of this master digital control center.

⑤ LINK indicators

When you or someone else selects a program source in a digital link room, the indicator of the selected source lights. Up to four indicators can light at the same time. 44

⑥ MASTER indicators

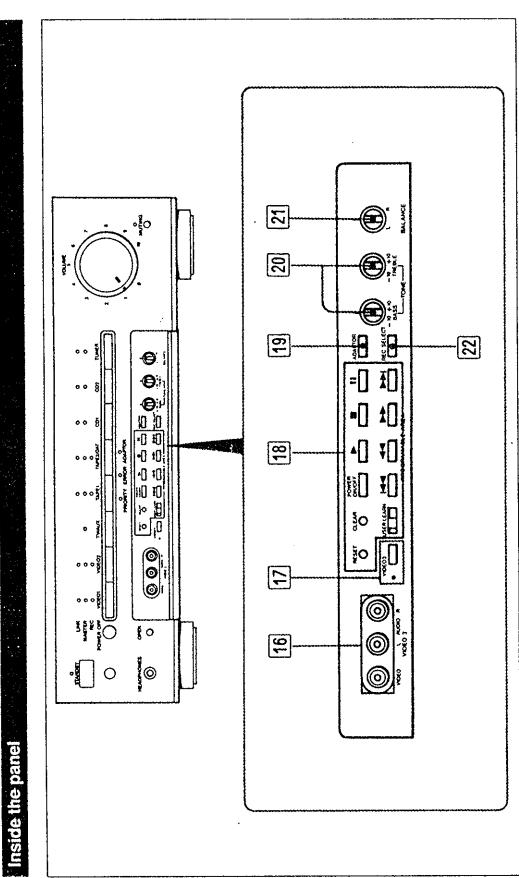
When you select a program source in the master room, the indicator of the selected source lights. 44

⑦ REC indicators

When you press REC SELECT to start recording, the indicators of the equipment onto which you can record blink. Select equipment to record the program source. 46

⑧ VOLUME control knob

Controls the audio level from PRE OUT and HEADPHONES jacks.



Refer to the pages indicated for details.

⑨ VIDEO 3 input jacks

Connect video equipment such as a video camera recorder.

⑩ VIDEO 3 button and indicator

Press to select the program source connected to VIDEO 3 jacks.

⑪ Programmable buttons for other manufacturers'

remote commander. 33

⑫ RESET

Press if the remote control operation does not function. 34

⑬ CLEAR

Clears all programmed signals regardless of program source. 34

⑭ USER/LEARN selector

Set to LEARN to program remote control signals of other manufacturers' equipment, except the ones for TUNER, TAUX and VIDEO 3. Set to USER to operate the connected equipment. 34

⑮ POWER ON/OFF, ▲, ▼, ▶, ▶, and ▶:

Operation buttons to be programmed on this master digital control center.

⑯ ADAPTOR button

Press to listen to the sound from the equipment connected to ADAPTOR jacks.

⑰ TONE control knobs

Increase or decrease the bass or treble tone.

⑱ BALANCE control knob

Adjusts the balance between the left and right speakers. Normally set at the center position.

⑲ REC SELECT button

Press to select equipment to record a program source. 46

System Configuration

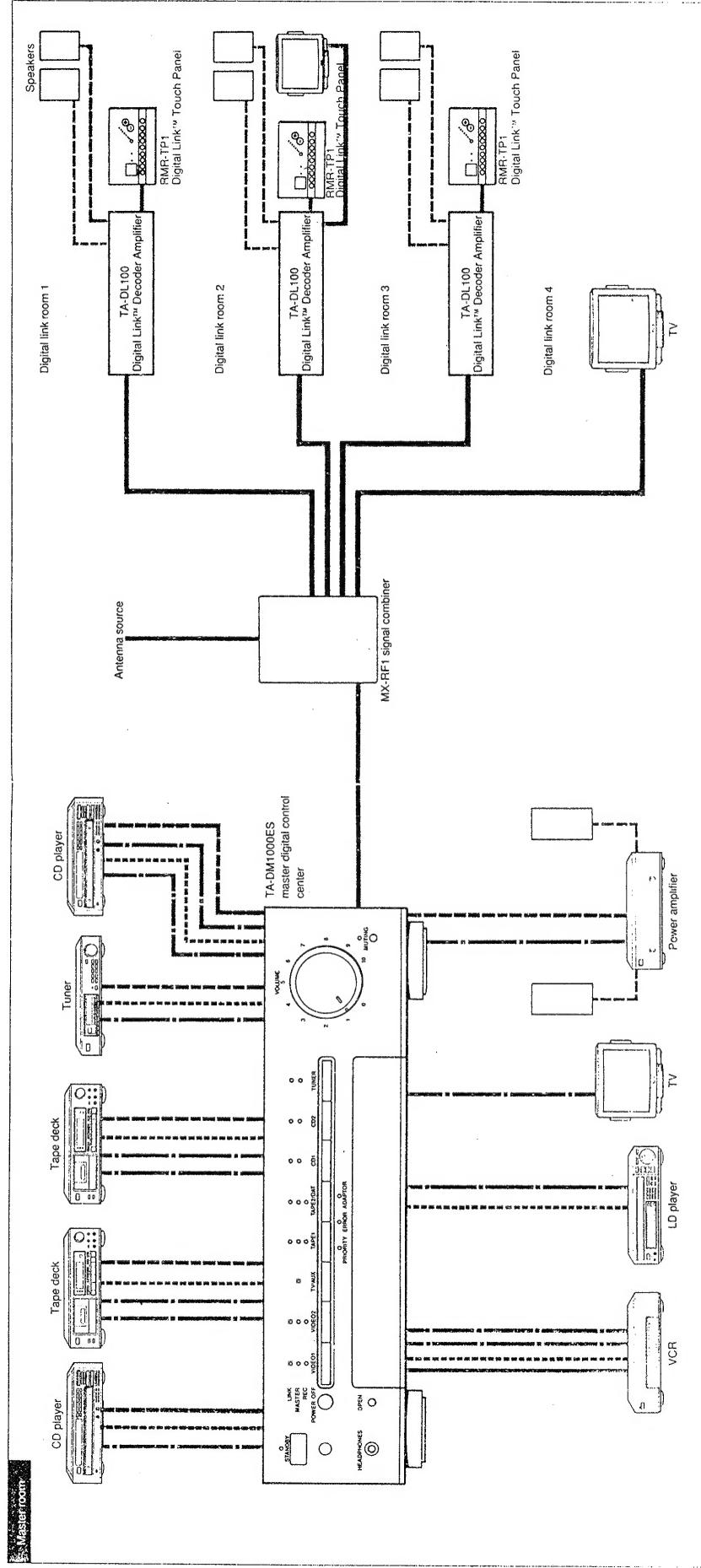
Connections

Here is a typical system configuration. Connect each piece of equipment referring to the pages that follow this section.

- 75-ohm coaxial cable (not supplied)
- Audio/video connecting cable (not supplied)
- Optical cable
- Sony Infrared Remote Control System cable (supplied, 4-pin type)
- Sony Infrared Remote Control System cable (supplied, mini type)
- AC power cord of each piece of equipment
- DIN cable of Digital Link™ Touch Panel
- Speaker cord (supplied for speakers)

Precautions

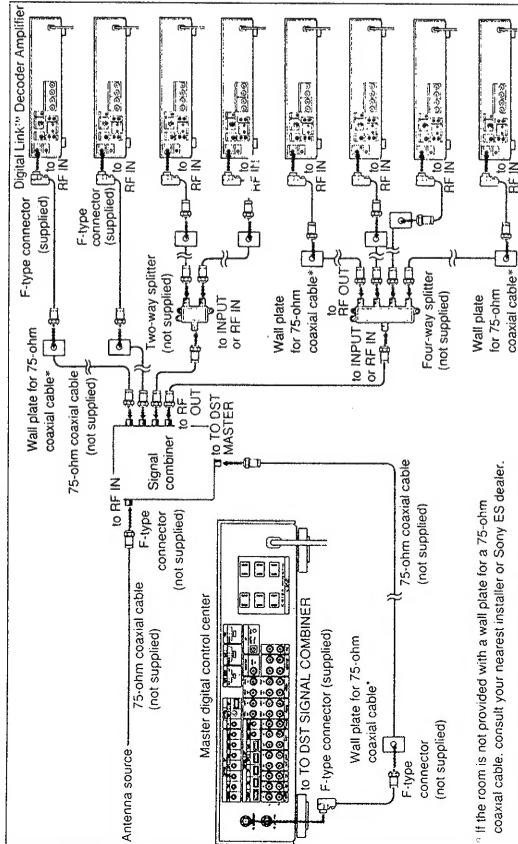
- Do not remove any enclosure of the unit when connecting or installing the equipment. Refer to the installation which requires opening of the unit to your nearest Sony ES dealer.
- When any wiring of the 75-ohm coaxial cable is required, consult your nearest Sony ES dealer. Installation of the 75-ohm coaxial cable should be performed in accordance with National Electrical Code and all applicable local codes.
- Before connection, be sure to turn off all equipment.
- Insert the plug fully. Loose connection may cause the noise.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- If noise occurs, leave enough space between each piece of equipment.
- Refer to the operating instructions of the corresponding equipment for connection.



Connecting the Signal Combiner and Digital Link™ Decoder Amplifier

When Connecting More Than Four Digital Link™ Decoder Amplifiers

A splitter (not supplied) is required. The use of four four-way splitters enables up to 16 digital link rooms to be connected to the DST system.



* If the room is not provided with a wall plate for a 75-ohm coaxial cable, consult your nearest installer or Sony ES dealer.

Usable splitter

Use a splitter that can transmit an RF signal of 10 to 900 MHz. In addition, a splitter with high signal isolation (more than 20 dB), and low insertion loss is recommended.

Cable type and length

When using splitter(s), the following type and length of cable is recommended.

Type	Two-way splitter	Four-way splitter*
Length of signal combiner to digital link decoder/amplifier (through splitter)	Up to 29 m (Approx. 95 ft.)	Up to 16 m (Approx. 52 ft.)

Using four four-way splitters, 16 digital link decoder amplifier can be connected.

How to attach the F-type connector (supplied not supplied)
See page 17.

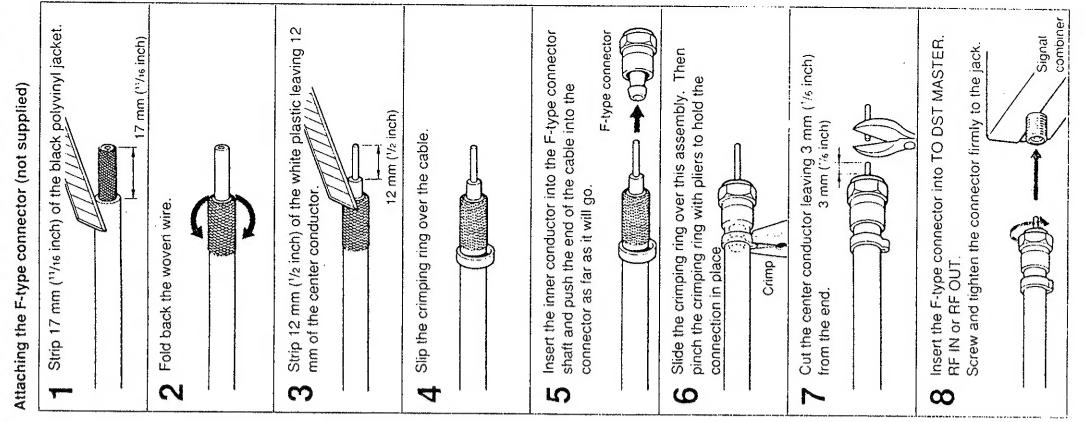
Notes

- Install each splitter at a distance of up to 1 m (3.2 ft.) from the signal combiner. If a splitter is located more than 1 m (3.2 ft.) away from the signal combiner, visible pictures cannot be obtained.
- Do not connect more than 16 Digital Link™ Decoder Amplifiers. Otherwise, the DST system may function incorrectly.

Before Connection

Before connection, you must attach an F-type connector to each end of the coaxial cable.

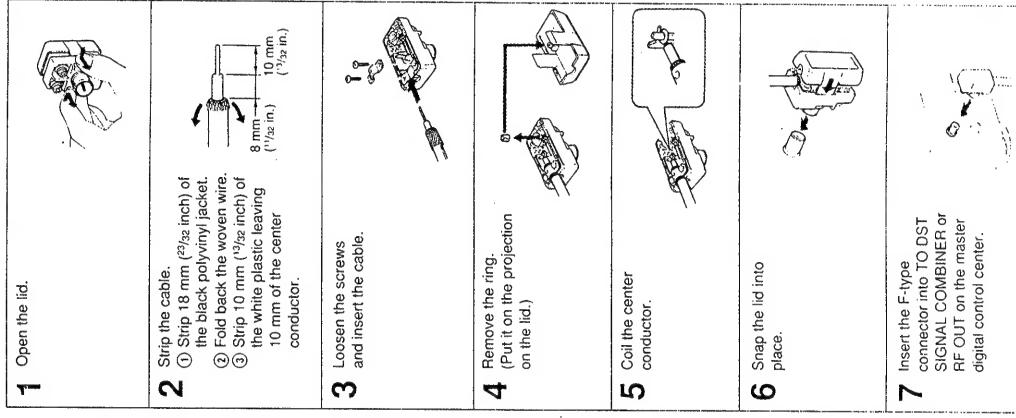
Attaching the F-type connector (supplied)



Attaching the F-type connector (not supplied)

Before connection, you must attach an F-type connector to each end of the coaxial cable.

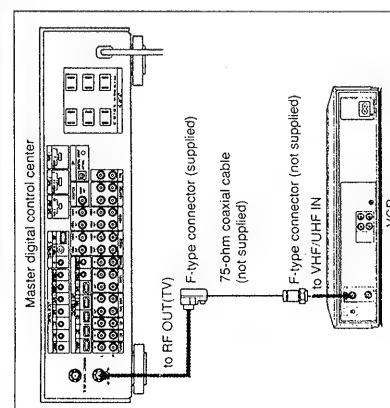
Attaching the F-type connector (supplied)



Connecting a VCR, Tuner or TV

Connecting a VCR

When you connect a tuner in the master room, use a splitter (not supplied) as illustrated on the next page. RF signals can be transmitted in parallel to a VCR and tuner. If you connect a TV as illustrated on the next page, you can watch CATV programs in the master room. Be sure to connect the TV to the MONITOR OUT lack of the master digital control center even in this case. (See page 22.)



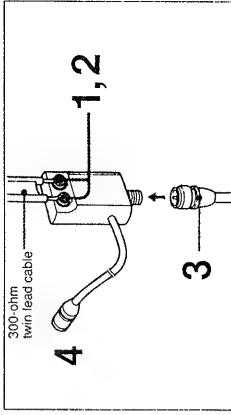
When you connect a TV with a VCR, refer to the operating instructions of the VCR.

How to attach the F-type connector (supplied/not supplied)
See page 17.

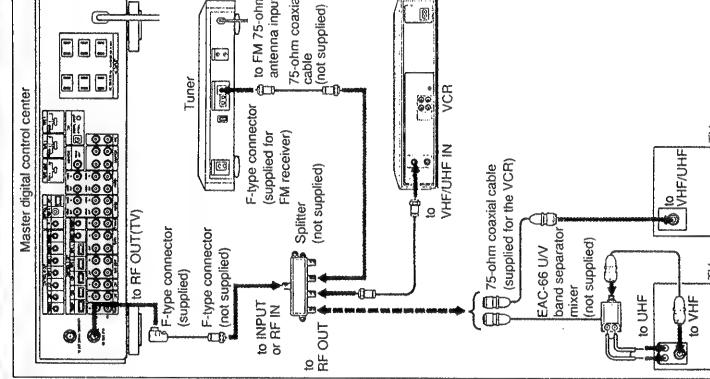
Connecting a Tuner or TV

Attaching the EAC-66 UV band separator/mixer (not supplied)

- 1 Loosen the screws on the UV band mixer/separators.
- 2 Fit the 300-ohm twin lead cable on the UHF antenna under the screws.
- 3 Connect the 75-ohm coaxial cable to the UV band mixer separator.
- 4 Connect the UV band mixer/separators to RF OUT on the splitter.



Master digital control center



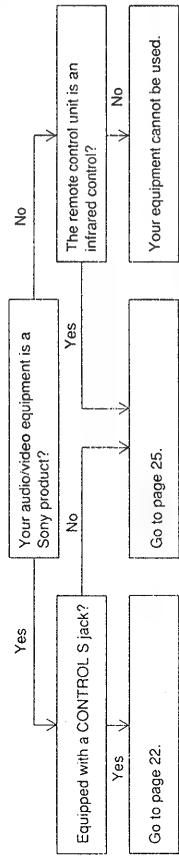
How to attach the F-type connector (supplied/not supplied)
See page 17.

How to attach the EAC-66 U/V band separator/mixer (not supplied)
See the right column.

Before Connecting Your Audio/Video Equipment to the Master Digital Control Center

Making Sure That Your Audio/Video Equipment Can Be Connected to the Master Digital Control Center

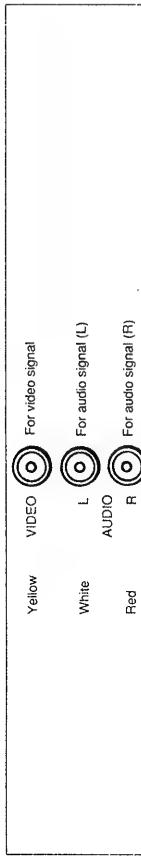
Using the following flow chart, first make sure that your audio/video equipment can be connected to the master digital control center, and proceed with connections.



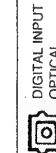
About the Input/Output Jacks

For audio/video signals

VIDEO and AUDIO jacks are distinguished by color. Connect the color so that the color of each plug corresponds to that of the jacks on the master digital control center and on the other equipment.



For optical signal
This master digital control center is equipped with a digital input jack for a CD player connected to the CD 1 jack. Connect to a CD player equipped with a digital (optical) output jack.



For control signals
This master digital control center is equipped with two types of control input/output jacks. Each jack has the indication designating the equipment to be connected. Do not connect equipment other than that indicated.

4-pin type	CONTROL S OUT		For control signal sent to Sony audio equipment equipped with CONTROL S IN
	CONTROL S OUT (VIDEO 1 or 2)		For control signal sent to Sony video equipment equipped with CONTROL S IN
Mini type	CONTROL S IN		For control signal sent from a Sony TV equipped with CONTROL S OUT
	RMR IN		For control signal sent from a wireless remote control receiver
	CONTROL IR- OUT		For control signal sent to Sony audio-video equipment without CONTROL S IN and other manufacturers' audio/video equipment

* IR is the abbreviation of infrared Remote control system.

Recommended Connecting Cords

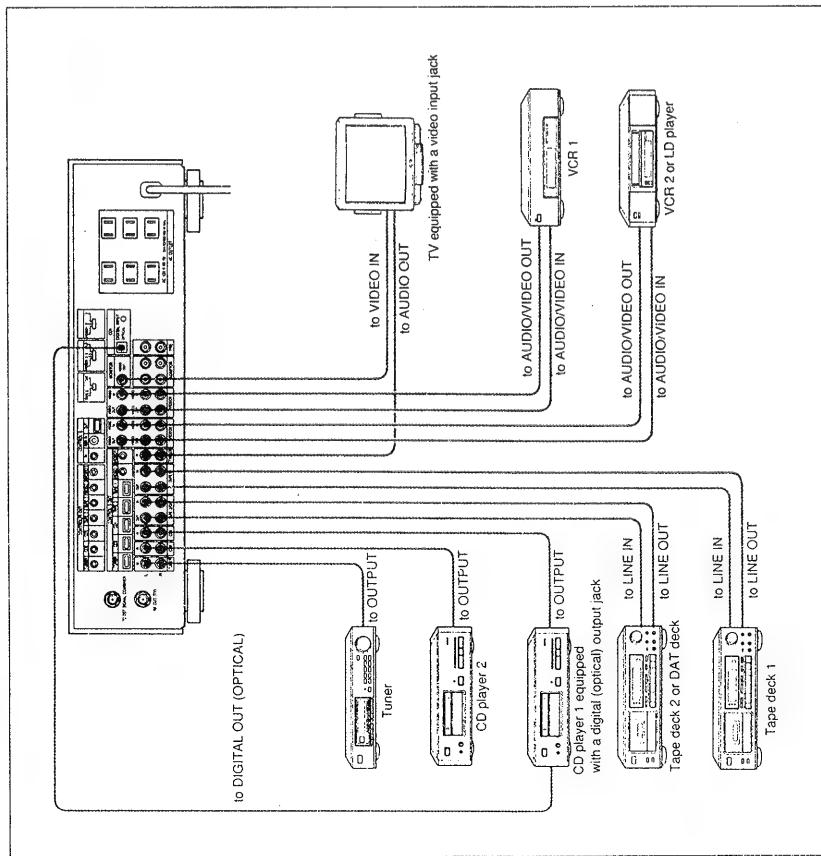
For connecting cords that are not supplied, the use of the following typical ones is recommended. Use a suitable cord according to the layout of your equipment.

	VMC-810S (1 m/3 ft 3 in) VMC-820S (2 m/6 ft 6 in)	Video and audio (stereo) input/output Phono plug (x3)	Phono plug (x3)
	RK-C74 (1.5 m/4 ft 11 in) RK-C78 (2 m/6 ft 6 in)	Audio input/output (stereo) Phono plug (x2)	Phono plug (x2)
	VMC-1/S (1.2 m/3 ft 9 in) VMC-1S (3 m/9 ft 9 in)	Video input/output Phono plug (yellow)	Phono plug (yellow)
	POC-15 (1.5 m/4 ft 11 in)	Optical input/output Optical plug	Optical plug
	RK-G69 (1 m/3 ft 3 in)	Sony control signal input/output Mini plug	Mini plug

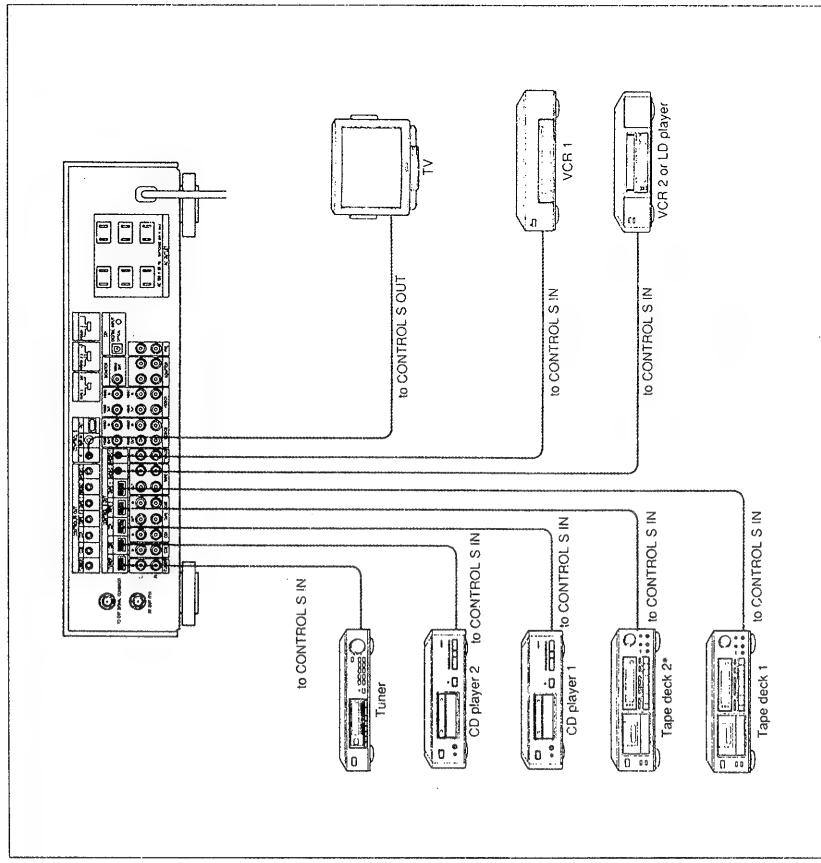
Connecting Audio/Video Equipment

Connecting Sony Audio/Video Equipment Equipped with CONTROL S IN Jack

Connecting audio/video cords



Connecting remote control cords



Notes

- Be sure to connect the equipment which corresponds to the notation on the jack. If equipment other than that indicated is connected, the remote control for that equipment does not function.
- When you connect a DAT deck without a CONTROL S IN jack, connect the DAT deck with cable having an LED emitter. See page 25.

Connecting Audio/Video Equipment

Connecting a TV

- Be sure to connect the TV to the MONITOR OUT jack with a video connecting cord. Otherwise, you cannot watch a video playback picture on the TV.
- When the control signal cord is connected as illustrated on page 23, you can control the DST system by pointing the RM-P Remote Commander to the remote control sensor of the TV. Note that the remote control center cannot receive control signals in this case.
- When your TV does not have the CONTROL S OUT jack, we recommend the use of a wireless remote control receiver. (See page 28.) In this case, put the wireless remote control receiver near the TV and point the RM-P1 Remote Commander in the direction of the wireless remote control receiver and TV.

Connecting a CD player equipped with a digital output to the CD 1 jack

- Connect a CD player which has a parallel output of digital and analog signals.
- Be sure to connect the CD player both to CD 1 IN (phono) and CD 1 DIGITAL INPUT (optical). The phono jack receives the audio signal to be played in the master room and optical jack receives the audio signal to be played in a digital link room.

1 Remove the protecting plug.



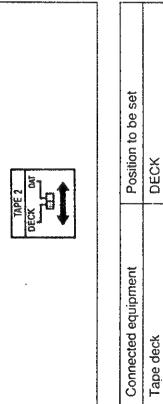
- Remove the protecting plug.
- Insert the plug.



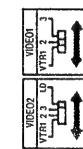
Position of the selectors on the rear panel

When you have connected Sony equipment to this master digital control center, set the selectors on the rear panel according to the following chart.

For tape deck or DAT deck connected to TAPE/E 2



For the equipment connected to VIDEO 1 or VIDEO 2

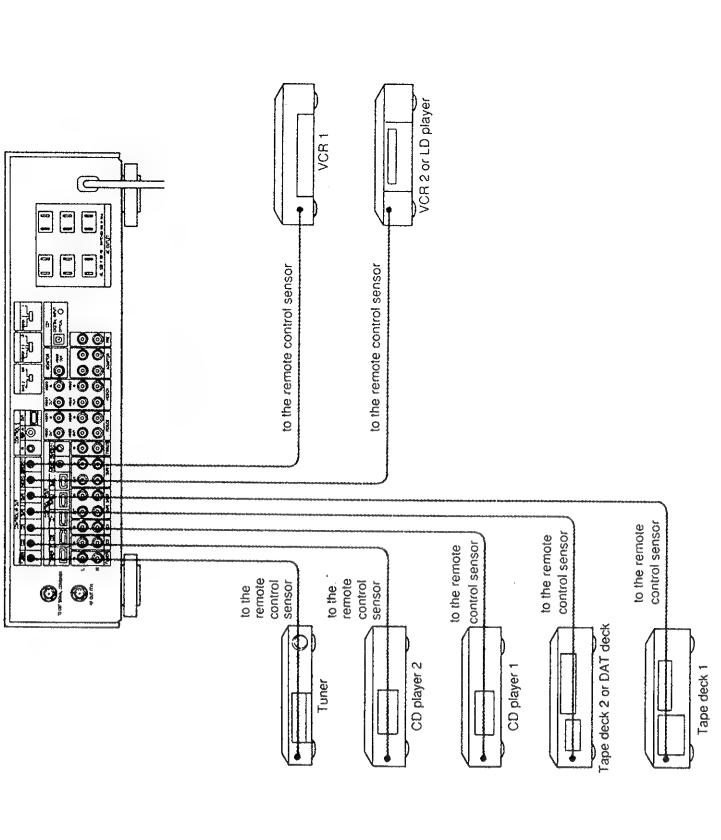


Connected equipment	Position to be set
Beta VCR or the VCR whose remote control mode you set to 1.	VTR 1
8mm VCR or the VCR whose remote control mode you set to 2.	2
VHS VCR or the VCR whose remote control mode you set to 3.	3
LD player or MD (multi disc) player	LD

Connecting Sony Audio/Video Equipment without CONTROLS IN/JACK or Other Manufacturers' Audio/Video Equipment

Connecting audio/video cords
Refer to page 22.

- When the signal cord is connected as illustrated on page 23, you can control the DST system by pointing the RM-P Remote Commander to the remote control sensor of the TV. Note that the remote control center cannot receive control signals in this case.



- If Sony equipment is newly connected to the CONTROL IR OUT jack after another manufacturer's unit has been connected, you must clear the previous remote control signal setting from the RM-P1 Remote Commander. (See page 34, "To clear all programmed signals".) The remote control signal setting is automatically reset to control Sony equipment.

- Notes
 - Be sure to connect the TV to the MONITOR OUT jack with a video connecting cord. Otherwise, you cannot watch a video playback picture on the TV.
 - Do not connect another manufacturer's tuner. Only Sony tuners can be controlled by the RM-P1 Remote Commander.

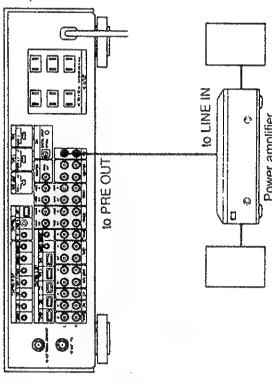
Connecting Audio/Video Equipment

Attaching an LED emitter to the remote control sensor of your audio/video equipment
 Attach the LED emitter with opaque adhesive tape so that the eye of the LED emitter will be facing the remote control sensor.
 Be sure to cover the entire remote control sensor with opaque adhesive tape. Otherwise, your audio/video equipment may receive the signal from the RM-P1 and malfunction.

Connecting a Power Amplifier or FM Receiver

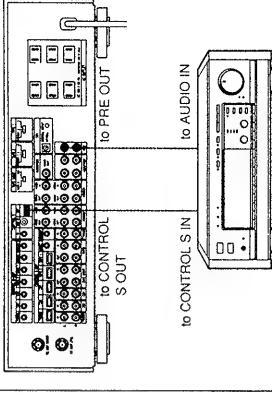
Connecting a Power Amplifier Other Than the TA-E1000ESD

Connect a power amplifier to listen to sound from speakers.



Connecting the TA-E1000ESD Amplifier

When the control cord is connected as illustrated below, you can control the TA-E1000ESD by pointing the remote commander (supplied for the TA-E1000ESD) at the remote control sensor of the master digital control center.



Notes on connecting the TA-E1000ESD amplifier

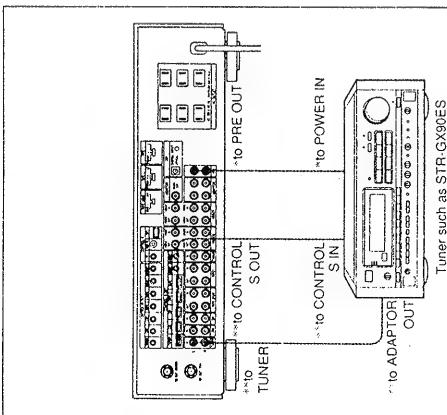
- Select a function except PHONO on the TA-E1000ESD amplifier.
- Set the volume control knob on the TA-E1000ESD amplifier at a medium level. Then, adjust the volume on the master digital control center at a desired level.

Connecting the AC Power

Connecting an FM Receiver Equipped with CONTROL S IN and POWER IN Jacks*

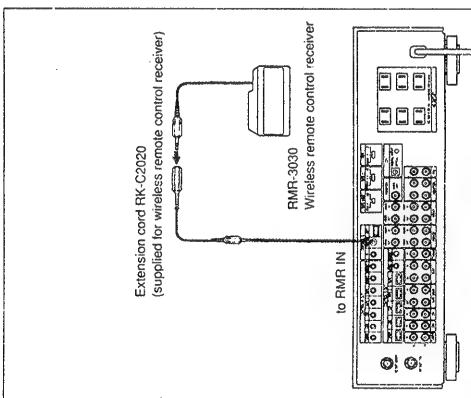
When the control signal is connected as illustrated below, you can control the FM receiver by pointing the remote commander supplied for the FM receiver at the remote control sensor of the master digital control center.

- When you use the FM receiver as a power amplifier only, make connection marked *.
- When you use the FM receiver as a tuner only, make connection marked ** and select TUNER for the function on the FM receiver.
- When you use the FM receiver as a power amplifier and tuner, make both connections and select TUNER for the function on the FM receiver.



Connecting a Wireless Remote Control Receiver Such As the RMR-3030K

- When the master digital control center is installed in a hidden location, for example, behind the cabinet, you can control the DST system by pointing the RM-P1 Remote Commander to the wireless remote control receiver.
- When your TV does not have a CONTROL S OUT jack, put the wireless remote control receiver near the TV. You can control the DST system including the TV by pointing the RM-P1 Remote Commander in the direction of the wireless remote control receiver and TV.

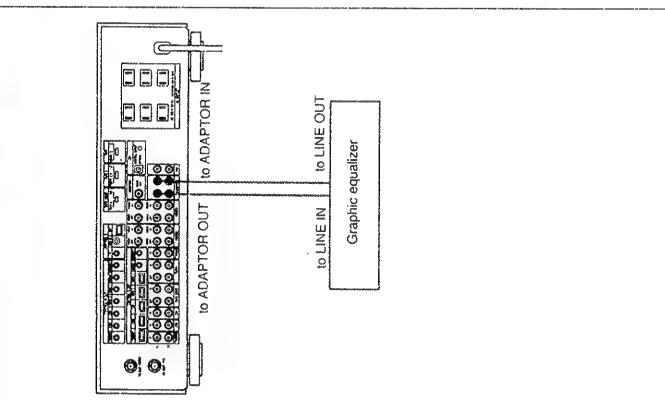


Connecting Other Equipment

Connecting a Graphic Equalizer

Connect the AC power of all equipment except the followings:

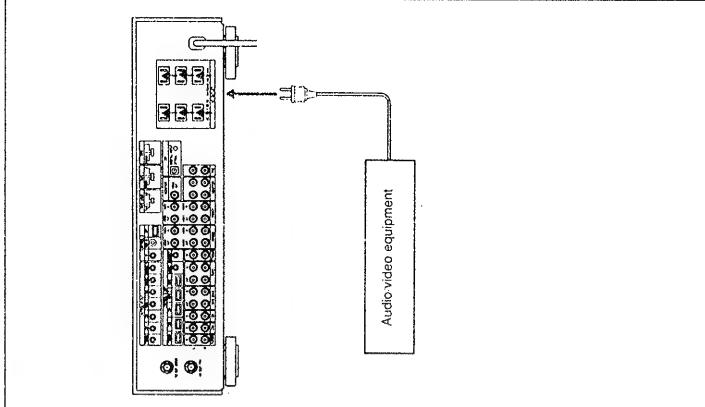
- TV
- VCR or LD player that can be turned on and off with remote control signal.



Connecting the AC Power

Connect the AC power of all equipment except the followings:

- TV
- VCR or LD player that can be turned on and off with remote control signal.



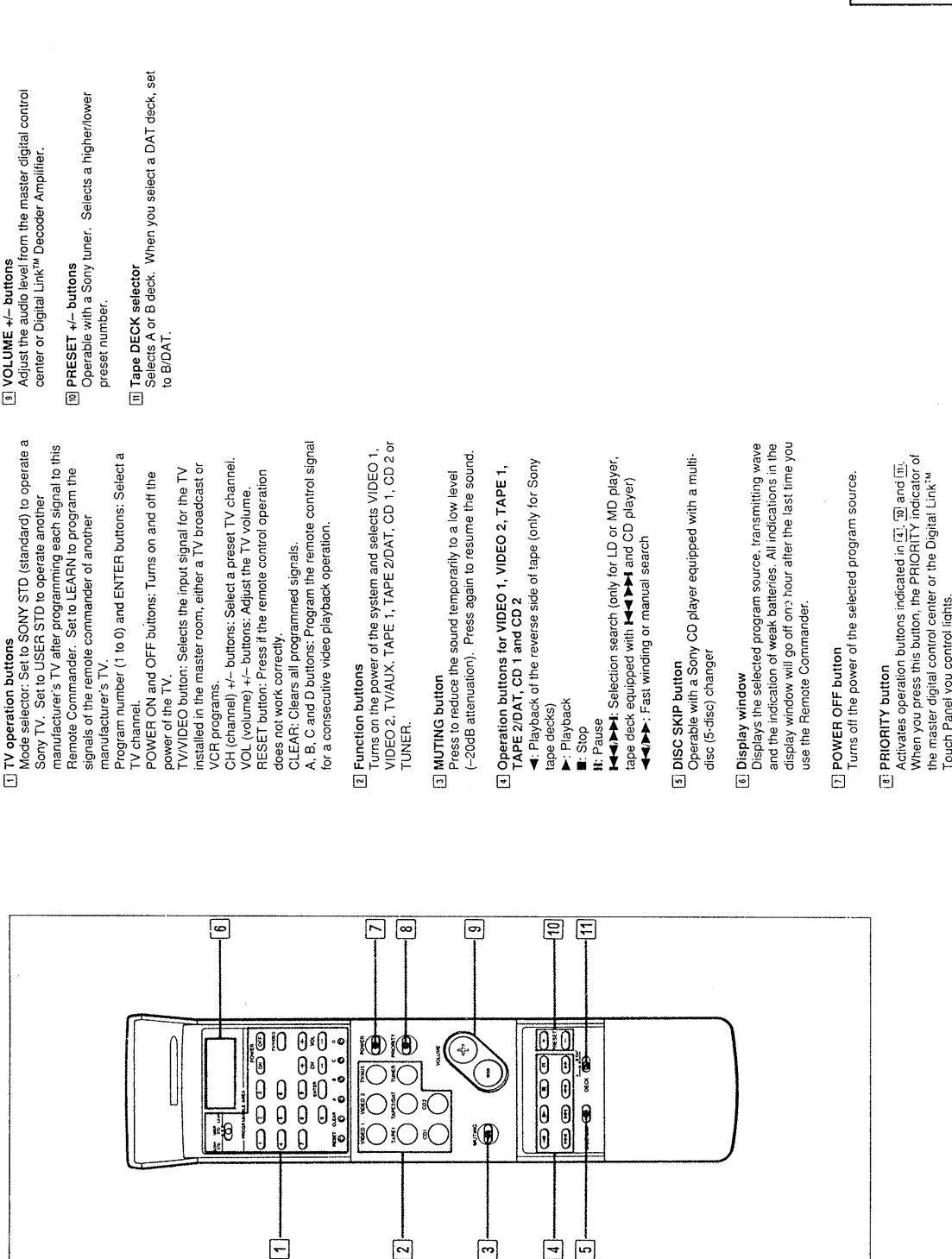
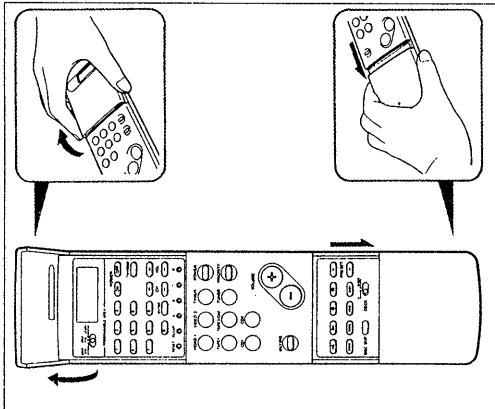
Notes

- Be careful that the total power consumption of the equipment connected to AC OUTLET does not exceed 900 watts.
- Do not connect electrical home appliances such as an electric iron or fan to these outlets.

Parts Identification

Before Using the RMP1 Remote Commander

How to open the lids of the Remote Commander



① TV operation buttons
Mode selector: Set to SONY STD (standard) to operate a Sony TV. Set to USER STD to operate another manufacturer's TV after programming each signal to this Remote Commander. Set to LEARN to program the signals of the remote commander of another manufacturer's TV.

Program number (1 to 0) and ENTER buttons: Select a TV channel.

POWER On and OFF buttons: Turns on and off the power of the TV.

TV/VIDEO button: Selects the input signal for the TV installed in the master room, either a TV broadcast or VCR programs.

CH (channel) +/- buttons: Select a preset TV channel.

VOL (volume) +/- buttons: Adjust the TV volume.

RESET button: Press it if the remote control operation does not work correctly.

CLEAR: Clears all programmed signals.

A, B, C and D buttons: Program the remote control signal for a consecutive video playback operation.

② Function buttons
Turns on the power of the system and selects VIDEO 1, VIDEO 2, TV/AUX, TAPE 1, TAPE 2/DAT, CD 1, CD 2 or TUNER.

③ MUTING button
Press to reduce the sound temporarily to a low level (-20dB attenuation). Press again to resume the sound.

④ Operation buttons for VIDEO 1, VIDEO 2, TAPE 1, TAPE 2/DAT, CD 1 and CD 2

▶: Playback

■: Stop

II: Pause

◀◀◀◀: Selection search (only for LD or MD player, tape deck equipped with ▶◀◀◀ and CD player)

▶▶▶▶: Fast winding or manual search

⑤ DISC SKIP button
Operable with a Sony CD player equipped with a multi-disc (5-disc) changer

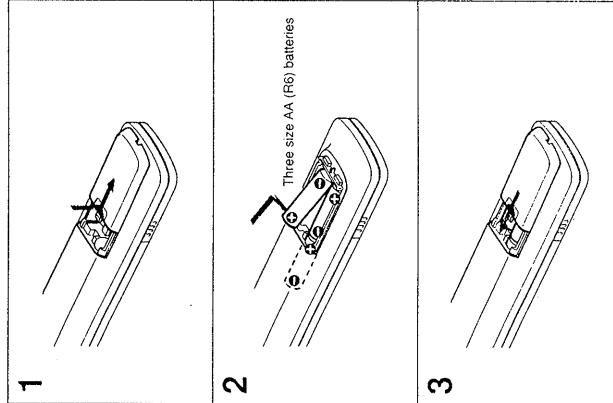
⑥ Display window
Displays the selected program source, transmitting wave and the indication of weak batteries. All indications in the display window will go off one hour after the last time you use the Remote Commander.

⑦ POWER OFF button
Turns off the power of the selected program source.

⑧ PRIORITY button
Activates operation buttons indicated in ①, ⑨ and ⑩. When you press this button, the PRIORITY indicator of the master digital control center or the Digital Link™ Touch Panel you control lights.

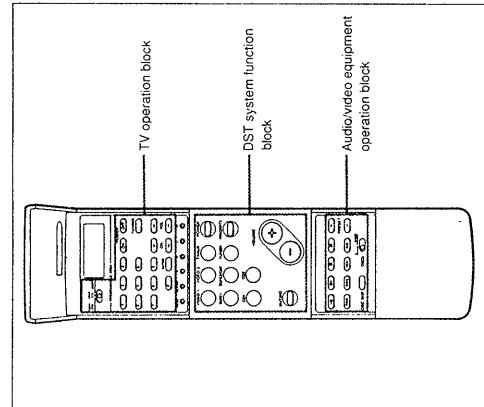
Loading the Remote Commander with the Batteries

Before operating the Remote Commander, install the batteries as illustrated.



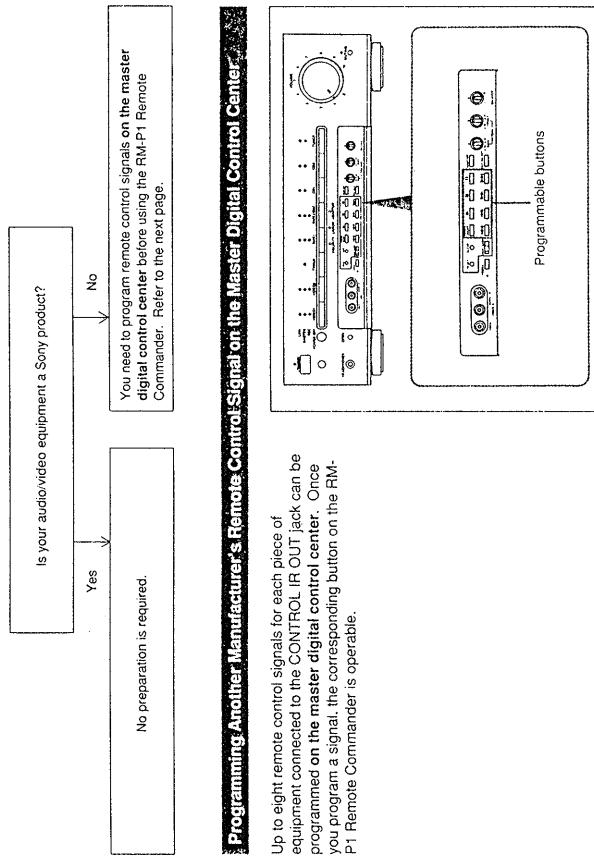
Three Blocks on the RM-P1 Remote Commander

Note that the buttons on the RM-P1 Remote Commander are divided into the three blocks as shown below and that you need to program remote control signals according to your audio/video equipment or TV.

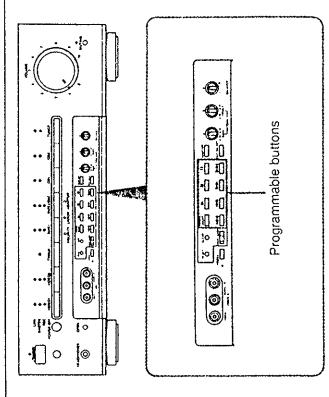


Audio/Video Equipment Operation Block

Check the audio/video equipment connected to the master digital control center.



Up to eight remote control signals for each piece of equipment connected to the CONTROL IR OUT jack can be programmed on the master digital control center. Once you program a signal, the corresponding button on the RM-P1 Remote Commander is operable.



DST System Function Block

When the batteries are run down

The **C** indication appears on the display window. Replace the batteries with new ones.

DST system function block has program source selection and volume level setting buttons. These buttons are the same as the ones on an RMF-TP1 Digital Link™ Touch Panel.

In addition, the **PRIORITY** button is provided in the DST function block to perform a variety of operations.

Battery life
Normal operation can be expected for about six months using Sony SUM-3(NS), and one year using Sony AM-3(NW) alkaline batteries.

- When your VCR or LD player can be turned on and off with the remote commander, be sure to program the signal of power on/off onto the master digital control center.
- Programmable only for a tape deck equipped with **◀▶** buttons.
- Notes
 - You can program another manufacturer's remote control signals on the master digital control center; you cannot use the remote commander supplied for that audio/video equipment.
 - Programmable buttons on the front panel of the master digital control center can be used for operating the system. Use these buttons to program another manufacturer's remote control signal.

Connected equipment	Programmable buttons							
	POWER On/Off	◀	■	▶	◀▶	▼	▲	◀▶
VCR	◎	○	○	○	○	○	○	○
LD or MD player	◎	○	○	○	○	○	○	○
Tape deck		○	○	○	○*	○	○	○
DAT deck		○	○	○	○	○	○	○
CD player		○	○	○	○	○	○	○

TV Operation Block

How to program Sony TV's remote control signals on the
RM-P1 Remote Commander

1 Set the mode selector to LEARN.

2 Program a signal.

① Press and hold the button (A, B, C or D) for which the remote control signal will be programmed, with a pointed object such as a ball-point pen, until "READY" appears on the display window of the RM-P1.

② Press and hold the button of the other commander whose signal is to be programmed.

③ Remove your finger(s) from the button(s) after "OK" appears on the display window. If "ERROR" appears, go back to step 2 ①.

3 Repeat operation for each button to be programmed.

4 Set the mode selector to SONY STD.

To control a Sony TV

SONY USER STD LEARN

1 Set the mode selector to LEARN.

2 Program a signal.

① Press and hold the button (A, B, C and D) for which the remote control signal will be programmed, with a pointed object such as a ball-point pen, until "READY" appears on the display window of the RM-P1.

② Press and hold the button of the other commander whose signal is to be programmed.

③ Remove your finger(s) from the button(s) after "OK" appears on the display window. If "ERROR" appears, go back to step 2 ①.

3 Repeat operation for each button to be programmed.

4 Set the mode selector to SONY STD.

To control a Sony TV

SONY USER STD LEARN

1 Set the mode selector to LEARN.

2 Program a signal.

① Press and hold the button for which the remote control signal will be programmed until "READY" appears on the display window of the RM-P1.

② Press and hold the button of the other manufacturer's remote commander whose signal is to be programmed.

③ Remove your finger(s) from the button(s) after "OK" appears on the display window. If "ERROR" appears in step 2 ②, the memory capacity is full. This occurs when other signals stronger than the remote control signals have been stored because the signals were programmed in a noisy environment or the remote commanders were placed too far apart from each other. In the above cases, clear the signals following the procedure described on next page and program again from the beginning under the proper conditions.

3 Repeat operation for each button to be programmed.

4 Set the mode selector to SONY STD.

To control a Sony TV

SONY USER STD LEARN

Tips for programming

Two remote commanders must:

- Be facing straight across from each other.
- Be placed at a distance of approx. 5 cm (2 in.).
- Be immobile during programming operation.

Tips for programming

Two remote commanders must:

- Be facing straight across from each other.
- Be placed at a distance of approx. 5 cm (2 in.).
- Be immobile during programming operation.

After programming

Operate the programmed button on the RM-P1 Remote Commander to confirm that the designated signal has been programmed.

If "ERROR" appears in step 2 ②, the memory capacity is full. This occurs when other signals stronger than the remote control signals have been stored because the signals were programmed in a noisy environment or the remote commanders were placed too far apart from each other. In the above cases, clear the signals following the procedure described on next page and program again from the beginning under the proper conditions.

Notes on programming

- Remote control signals of equipment of manufacturers other than Sony can be programmed only when they are compatible with the infrared wireless remote control system. Since the programmable commander can program only the signals output from another remote commander, it cannot control equipment that does not use a remote commander. Also, note that there are some special remote control signals that cannot be programmed.
- Do not attempt to use the RM-P1 Remote Commander with an air conditioner or other household appliances.

Basic Operation

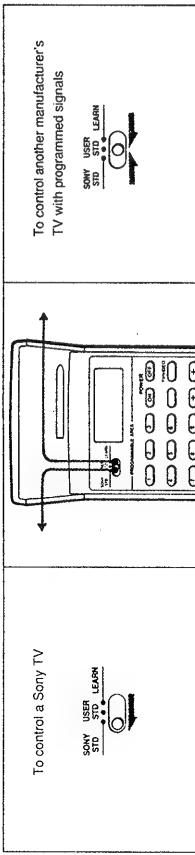
Playback/Reception

To program a new signal onto a previously programmed button
Follow the programming procedure.
The previously programmed signal is cleared and replaced by the new signal.

To clear all programmed signals
1 Set the mode selector to LEARN.
2 Press and hold CLEAR until "CLEAR" changes to "CLR" on the display window.

Note
It is not possible to clear the programmed content of the just one button.

Controlling a TV
By switching the mode selector as shown below, a single button alternately controls Sony TV and another manufacturer's TV.



You can select a program source among VIDEO 1, VIDEO 2, TV/AUX, TAPE 1, TAPE 2 (or DAT), CD 1, CD 2 and TUNER.

Preparation

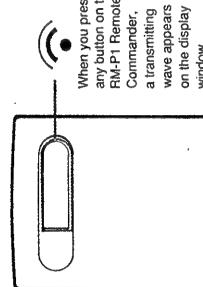
Insert a cassette tape or a disc to be played back according to the program source.

To play a video tape in the master room

- When you use a Sony TV, press TV/VIDEO on the RM-P1 Remote Commander to make the monitor screen appear on the TV. If you programmed the signal of VIDEO 1, 2, or 3 on the A button of the RM-P1, you need not press TV/VIDEO.
- When you use another manufacturer's TV, press POWER ON and TV/VIDEO on the RM-P1 Remote Commander to turn on the power of the TV.

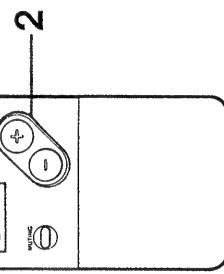
Operation

1 Press a function button to select the desired program source. The program source you selected appears on the display window of the RM-P1 Remote Commander.



2 Adjust the volume.

To stop the playback
Press ■.
If the PRIORITY indicator of the master digital control center or the Digital Link™ Touch Panel is off, first press PRIORITY.



If no signal has been programmed
RM-P1 Remote Commander can control Sony equipment even when the mode selector is set to USER STD.
If the TV works incorrectly
Press RESET and operate again. The programmed contents of the buttons are not cleared by pressing RESET.

Basic Operation

To listen to/watch a different program source
Press the desired function button.

To turn off the power of the system
Press POWER OFF*. The indicator of the function will go out.

* Automatic power off
The power of the DST system excluding TV will be turned off automatically 30 seconds after you pressed POWER OFF either in the master room or digital link room unless other room(s) are using another program source.

When you watch a video tape or TV program on another manufacturer's TV
Be sure to turn off the power of the TV. Even if you press POWER OFF on the DST system block or the RM-P1 Remote Commander, the power of that TV will not be turned off.

When you press TV/AUX on the RM-P1 Remote Commander during video playback operation
Picture on the TV changes to the one of the TV tuner.

Note
When you use another manufacturer's VCR, LD or MD player, do not turn on and off the power of it independently. If you turn on and off the power of that equipment independently, its power may not be switched to the power of the DST system.

Operation with Priority

To listen to/watch a different program source
Press the desired function button.

To turn off the power of the system
Press POWER OFF*. The indicator of the function will go out.

* Automatic power off
The power of the DST system excluding TV will be turned off automatically 30 seconds after you pressed POWER OFF either in the master room or digital link room unless other room(s) are using another program source.

When you watch a video tape or TV program on another manufacturer's TV
Be sure to turn off the power of the TV. Even if you press POWER OFF on the DST system block or the RM-P1 Remote Commander, the power of that TV will not be turned off.

When you press TV/AUX on the RM-P1 Remote Commander during video playback operation
Picture on the TV changes to the one of the TV tuner.

Note
When you use another manufacturer's VCR, LD or MD player, do not turn on and off the power of it independently. If you turn on and off the power of that equipment independently, its power may not be switched to the power of the DST system.

The RM-P1 Remote Commander is equipped with the priority of the remote control. When you have the priority, various operations are possible for the function appearing on the display window, either in the master room or in a digital link room.

Video: Tape Operation

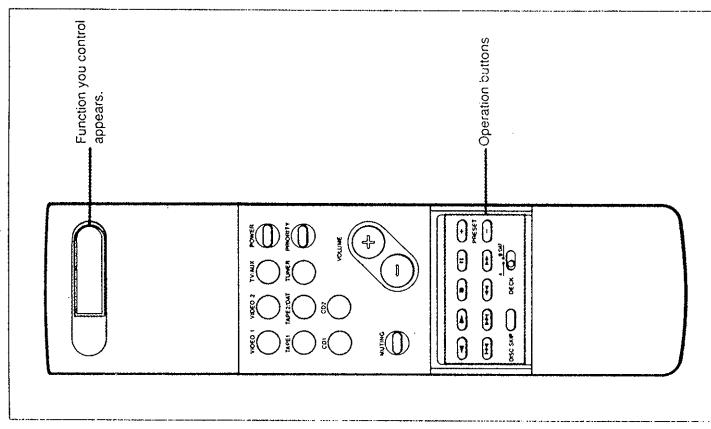
Available operation
Start playback with VIDEO 1, VIDEO 2 or ▲

You want to	Press
Stop playback	■
See a still picture (pause mode)	II
Release the pause mode	II or ▲
Advance the tape rapidly	◀
Rewind the tape	▶

Laser (Multi) Disc Operation

Available operation
Start playback with VIDEO 2 or ▲

You want to	Press
Stop playback	■
See a still picture (pause mode)	II
Release the pause mode	II or ▲
Locate a following chapter	◀◀
Locate a previous chapter	▶▶
Locate a particular point ahead of the current one	◀
Locate a particular point behind the current one	▶



Before operation

Check that the PRIORITY indicator lights on the master digital control center or Digital Link™ Touch Panel you control.
If this indicator is off, press PRIORITY on the RM-P1 Remote Commander.

Operation with Priority

Cassette/Tape Operation

Available operation

Start playback with TAPE 1, TAPE 2 or ▶.

You want to	Press
Stop playback	■
Stop playback temporarily (pause mode)	■
Release the pause mode	■ or ▲
Advance the tape rapidly	▲
Rewind the tape	▼
Change the playback side*	▼
Locate a following selection...	▲
Locate a previous selection...	▼
Locate a particular point behind the current one	◀
Locate a particular point ahead of the current one	▶
Stop to another disc*	DISC SKIP

* Available only for a Sony CD player equipped with a multi-disc changer

When you use these buttons, be sure to set the DECK selector to B on the RM-P1 Remote Commander.

DAT Operation

Available operation

Start playback with TAPE 2 or ▶.

You want to	Press
Stop playback	■
Stop playback temporarily (pause mode)	■
Release the pause mode	■ or ▲
Advance the tape rapidly	▲
Rewind the tape	▼
Locate a following selection...	▲
Locate a previous selection...	▼

When you use these buttons, be sure to set the DECK selector to B on the RM-P1 Remote Commander.

Compact Disc Operation

Available operation

Start playback with CD 1, CD 2 or ▶.

You want to	Press
Stop playback	■
Stop playback temporarily (pause mode)	■
Release the pause mode	■ or ▲
Advance the tape rapidly	▲
Rewind the tape	▼
Change the playback side*	▼
Locate a following selection...	▲
Locate a previous selection...	▼
Locate a particular point behind the current one	◀
Locate a particular point ahead of the current one	▶
Stop to another disc*	DISC SKIP

* Available only for Sony tape decks equipped with the ▶ buttons. The DECK selector is to be set to B.

About the Priority of Remote Control

Purpose

To avoid mixing up remote control signals, the DST system allows only one room to control each program source. The room which has the "priority" can control that program source.

What is "Priority"?

The PRIORITY indicator on the master digital control center or digital link touch panel lights if the room has the priority. If you have the priority, you can control any operation available on the selected program source, by using the RM-P1 Remote Commander. (Refer to pages 41 and 42.) If you do not have the priority, you can listen to/watch the program source and adjust the volume, but you cannot activate any other operations. See the table below for details of the difference between a room WITH priority and a room WITHOUT priority.

How to obtain the priority

Press PRIORITY on the RM-P1 Remote Commander. If the PRIORITY indicator is off on the equipment you control, this indicator will light. Then, you can perform various operation with the RM-P1 Remote Commander.

About "Automatic Power Off"

The "Automatic Power Off" function turn off the power automatically if you press ■ button and leave it for more than 10 minutes. If someone who has priority stops the playback/reception of the program source or turns off the power, it affects those who also listen to/watch the same program source in other rooms as well. The table below describes what happens when "Automatic Power Off" function is activated.

PRIORITY indicator	A room WITH priority	A room WITHOUT priority
on	on	off
Things you can do (on the RM-P1 Remote Commander, master digital control center and/or Digital Link™ Touch Panel)	select a program source adjust the volume muting turn off the power	select a program source adjust the volume muting obtain the priority
(on the RM-P1 Remote Commander only)	start, stop, pause for a moment. rewind or fast forward locate a desired selection play the reverse side search for a disc tune in the preset station	
How the "Automatic Power Off" works (When you press ■ in a room with priority)	Playback/reception stops. After 10 minutes, the PRIORITY indicator blinks. After 30 seconds, the power turns off automatically.	Playback/reception stops. After 10 minutes, the PRIORITY indicator blinks. After 30 seconds, the power turns off automatically.
(When you press POWER OFF in a room with priority)	Power turns off.	PRIORITY indicator blinks. After 30 seconds, the power turns off automatically.

* During a 10-minute break of the program source playback

reception with the function button on the Digital Link™ Touch Panel nor master digital control center.

When you want to continue the playback/reception in a room without priority, first press PRIORITY on the RM-P1 Remote Commander. During this 10-minute break, you cannot resume the playback.

About the Multi-Room Operation

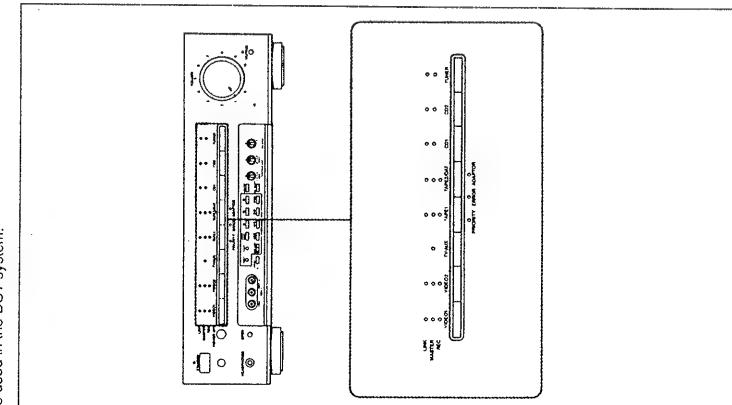
In the DST system, several rooms are connected to the system and it is impossible to watch operations in other rooms.

Unwanted operation may occur when you are playing a program source. This section explains the system of the multi-room operation and imaginable problems.

Checking the Multi-Room Operation on the Master Digital Control Center

The MASTER and LINK indicators on the master digital control center allows you to check what program source(s) is used in the DST system.

Indicator on the master digital control center	MASTER	LINK
Condition	Lights in green	Lights in orange
What happens	Playback of a program source starts in digital link room(s).	Playback of a program source starts in the master room.
Condition	Goes off	Playback/reception of the program source stops in the master room.
What happens	Playback/reception of the program source stops in digital link room(s).	Playback/reception of the program source stops in the master room.



Available Program Sources for the Simultaneous Playback

In the DST system, audio/video signals to be transmitted simultaneously are limited as described below. When you want to select a different program source from the one played in the master room or other digital link rooms, note that up to five program sources is available simultaneously.

For the master room: any program source

For digital link rooms:

- CD 1
- Two audio sources with digital sound
- One video source with analog (monaural) sound from TV VIDEO 1 and VIDEO 2 cannot be selected simultaneously in digital link rooms.

Examples showing the maximum program sources played back simultaneously

Example 1	Program source in use	Form of transmission in sound	Master room	Digital link room 1	Digital link room 2	Digital link room 3	Digital link room 4	Digital link room 5	Digital link room 6	Digital link room 7	TV/AUX*
	VIDEO 1	CD 1		TAPE 2	VIDEO 2	TAPE 2	TUNER	CD 1			

Example 2	Program source in use	Form of transmission in sound	Master room	Digital link room 1	Digital link room 2	Digital link room 3	Digital link room 4	Digital link room 5	Digital link room 6	Digital link room 7	TV/AUX*
	CD 1**	VIDEO 1		CD 2	TAPE 1	TAPE 1	VIDEO 1	CD 1			

* When you select a TV program, TV programs can be selected in every room because the function of TV/AUX is independent of the system.

** When you select CD 1 in the master room

The maximum number of program sources transmitted simultaneously becomes four.

If you cannot select a desired program source

• All transmissible audio/video signals are used according to the above table.

Example: when CD 1, CD 2 and TAPE 1 functions are used in more than three digital link rooms.

You cannot select TAPE 2 in another digital link room.

• Someone is going to start recording in the master room. While the REC indicator of your desired program source blinks on the master digital control center, you cannot select that program source in a digital link room even if you press its function button.

How many rooms can select the same program source?

All rooms can select the same program source. In the DST system, one program source can be selected in up to 17 rooms including the master room.

About the ERROR Indicator

The ERROR indicator lights in the following cases and shows that the DST system does not function correctly.

- The connection of 75-ohm coaxial cable within the DST system has not been performed correctly. Check the connection. Consult your nearest Sony ES dealer if necessary.
- The USER/LEARN selector on the master digital control center is set to LEARN when you play the same program source as the one played in the master room. You can continue to play that program source, but various operations with priority are not available even if you have the priority. You cannot select another program source, either.

Recording

Other Information

Optional Accessories

Note that you cannot perform recording
— by using the RM-P1 Remote Commander.
— on the Digital Link™ Touch Panel.

Preparation

Insert a blank tape, disc or recorded tape into each playback/recording equipment.

Operation

- To record a TV program
Select a desired channel on the RM-P1 Remote Commander or TV.

1 Press the function button to select the desired program source.

2 If the PRIORITY indicator on the front panel does not light, press PRIORITY on the RM-P1 Remote Commander to obtain the priority. When the PRIORITY indicator is lit, skip this step.

3 Press REC SELECT. The REC indicators blink in red. The program source with the REC indicator blinking can be recorded.*

4 Press the function button to select a program source onto which you will record the one selected in step 1. The REC indicator lights in red on the selected function button.

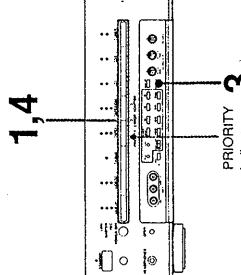
5 Perform recording with the playback/recording equipment.

- ① Set the equipment for recording in the recording mode.
- ② Set the other equipment in the playback mode.

To stop recording
Press REC SELECT.

Notes on recording

- If the REC indicator of your desired program source to be recorded does not blink, this program source is in use in another digital link room (S). To record onto this program source, first press PRIORITY on the RM-P1 Remote Commander.
- While the REC indicator blinks, program sources with these indicators can be used in digital link rooms.
- When you want to dub a program source, select the same program source in step 1 and 4.



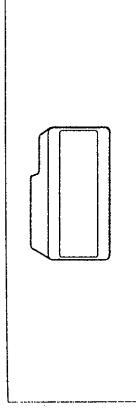
The DST system can be expanded with the use of optional accessories other than the supplied ones. Refer to the following optional accessories for system expandability. For audio, video and control cords, refer to page 21.

For a Digital Link Room

- To install an RM-R-TP1 Digital Link™ Touch Panel into the wall
- PC-3030 Connector wall unit

For the Master Room

- To remote control of the system in a hidden installation
- RM-R-3030K Wireless remote control receiver
- Install the wireless remote control receiver in a convenient location and point the RM-P1 Remote Commander at the wireless remote control receiver to control the system.



RK-MD3030 Mini DIN cable (male - male, 10 m/32 ft 6 in)



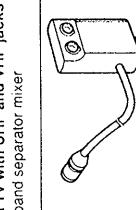
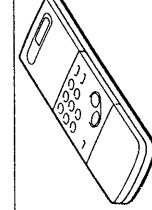
RK-MD3035 Mini DIN cable (male - male, 5 m/16 ft 3 in)



For the DST system

- To control the system from every digital link room with the priority
- RM-P1 Remote Commander*

* One piece is supplied for the system.

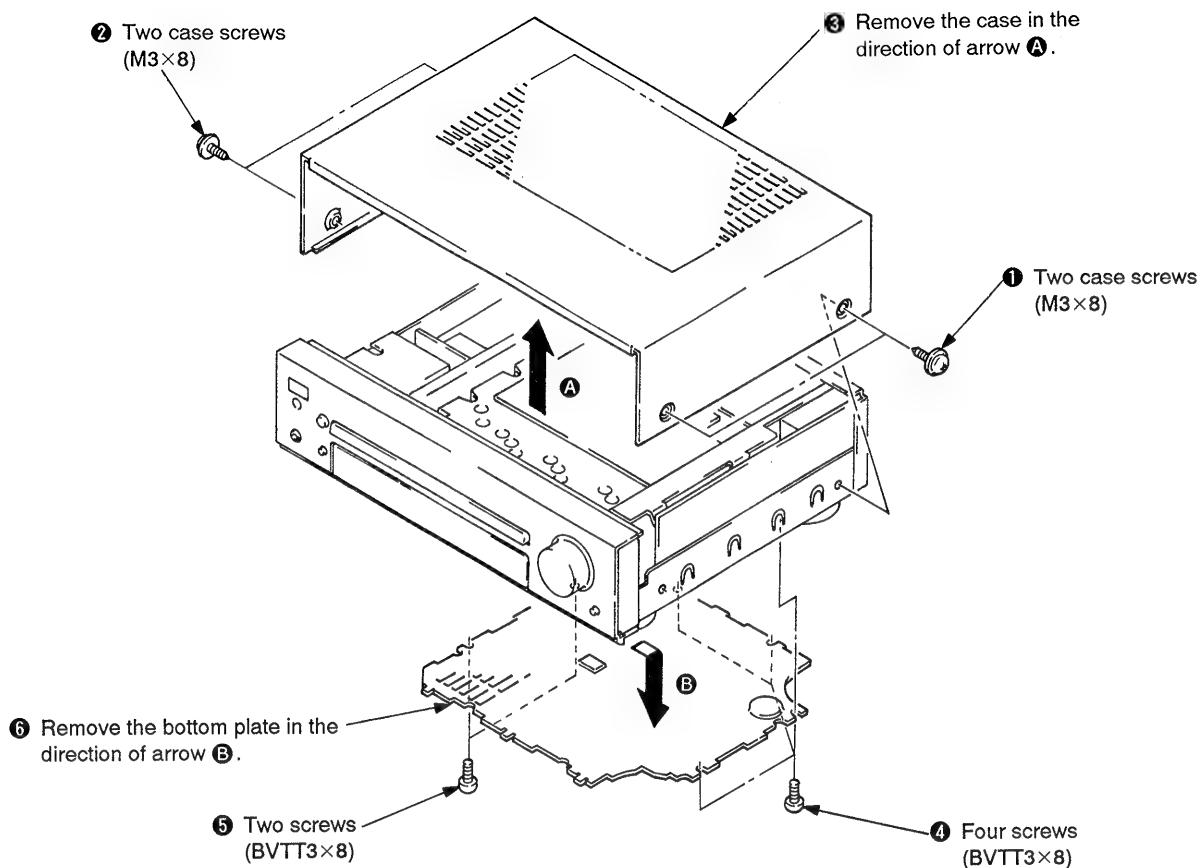


To connect a TV with UHF and VHF jacks
EAC-66 U-V band separator mixer

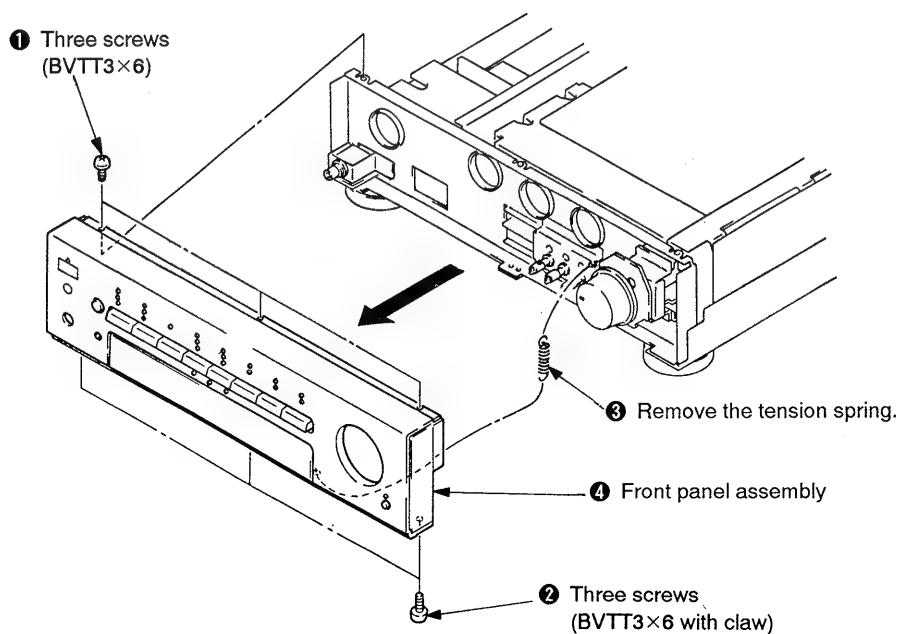
SECTION 2

DISASSEMBLY

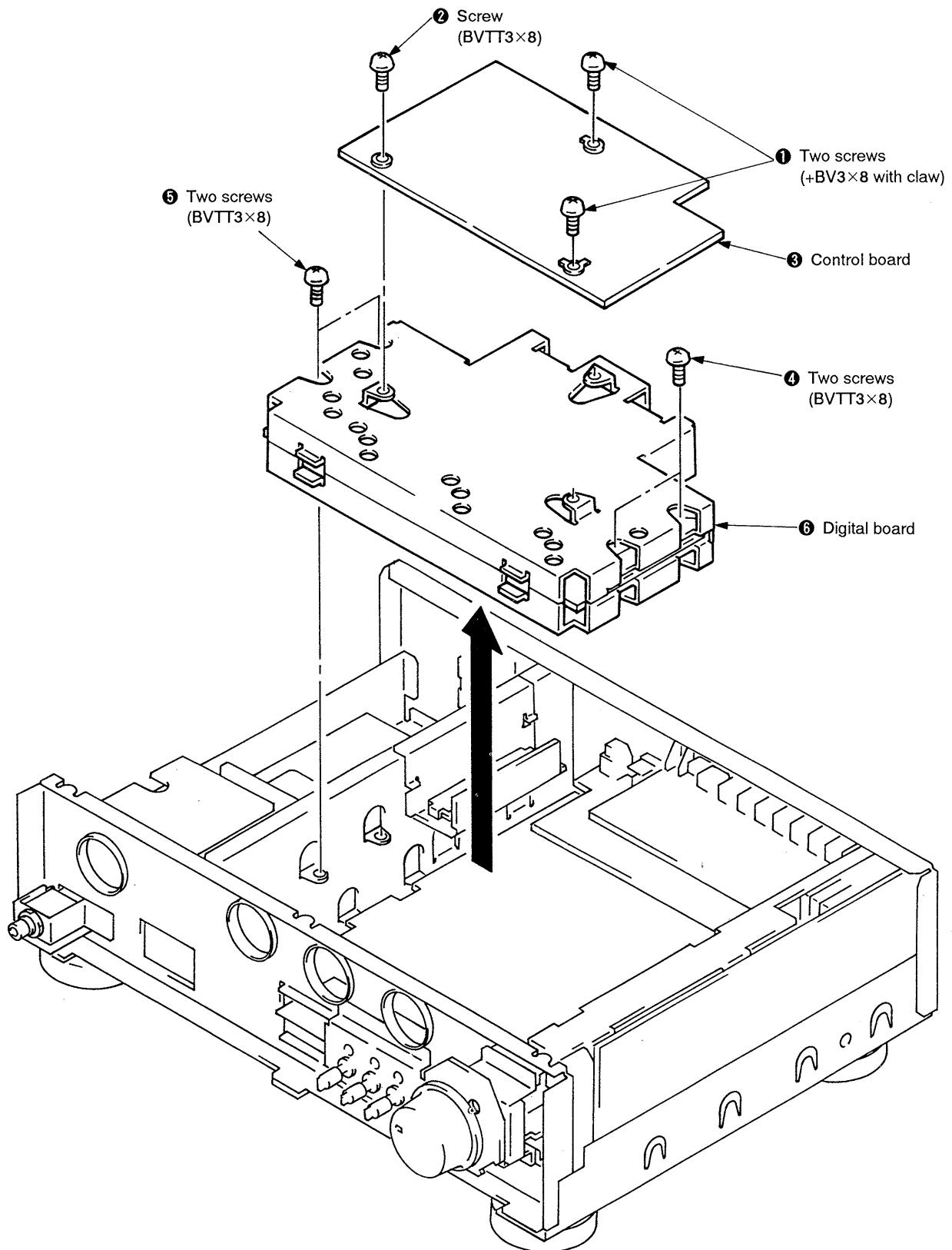
2-1. REMOVAL OF CABINET ASSEMBLY



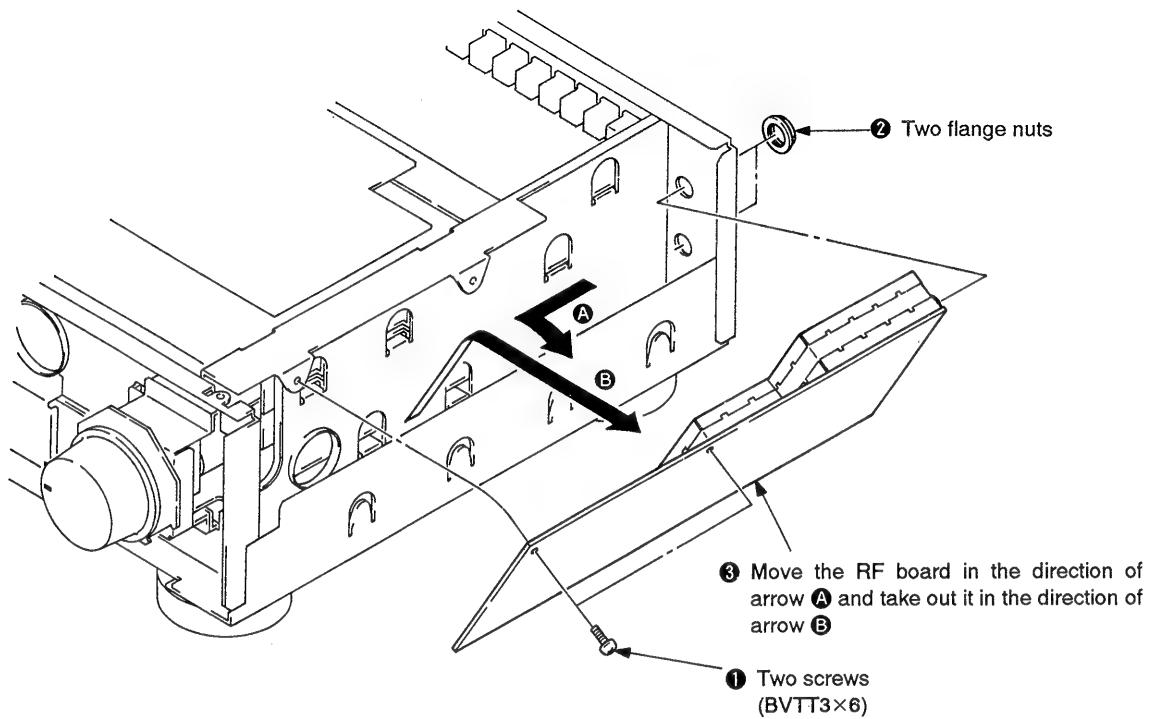
2-2. REMOVAL OF FRONT PANEL ASSEMBLY



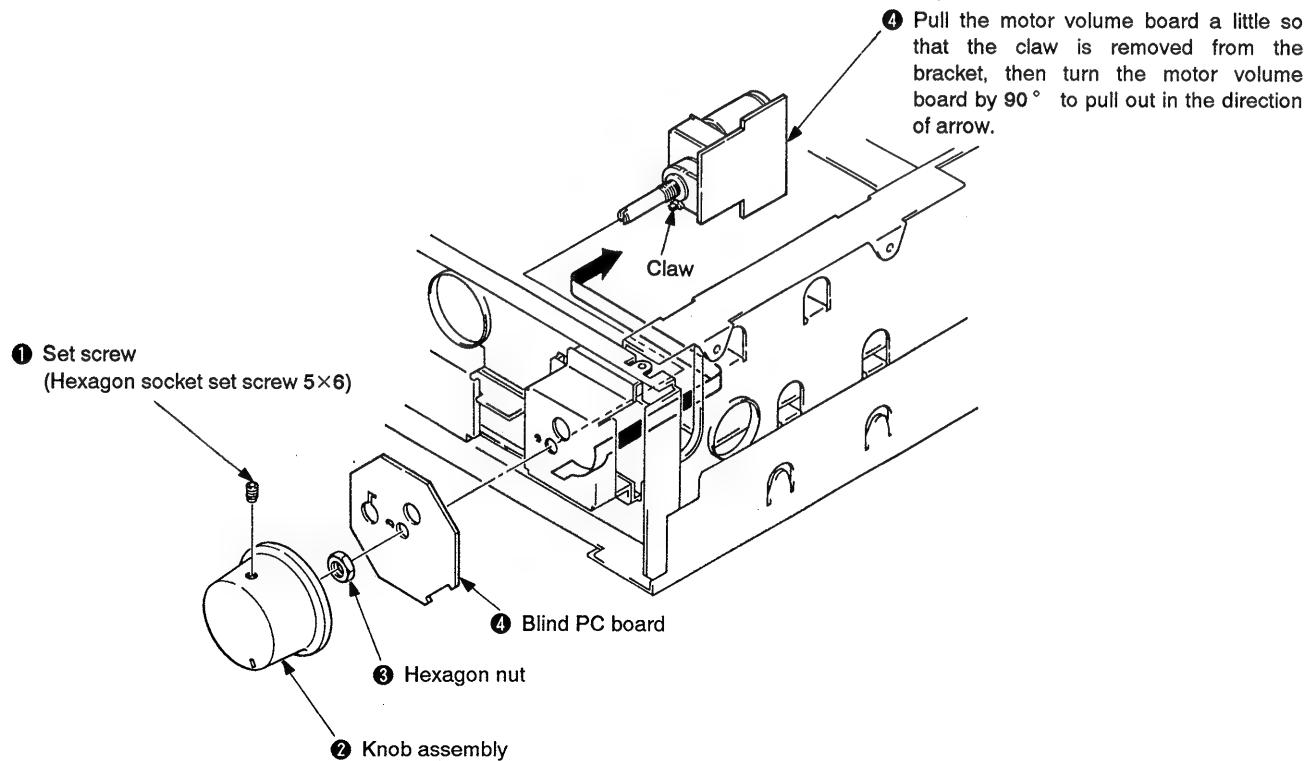
2-3. REMOVAL OF CONTROL AND DIGITAL BOARDS



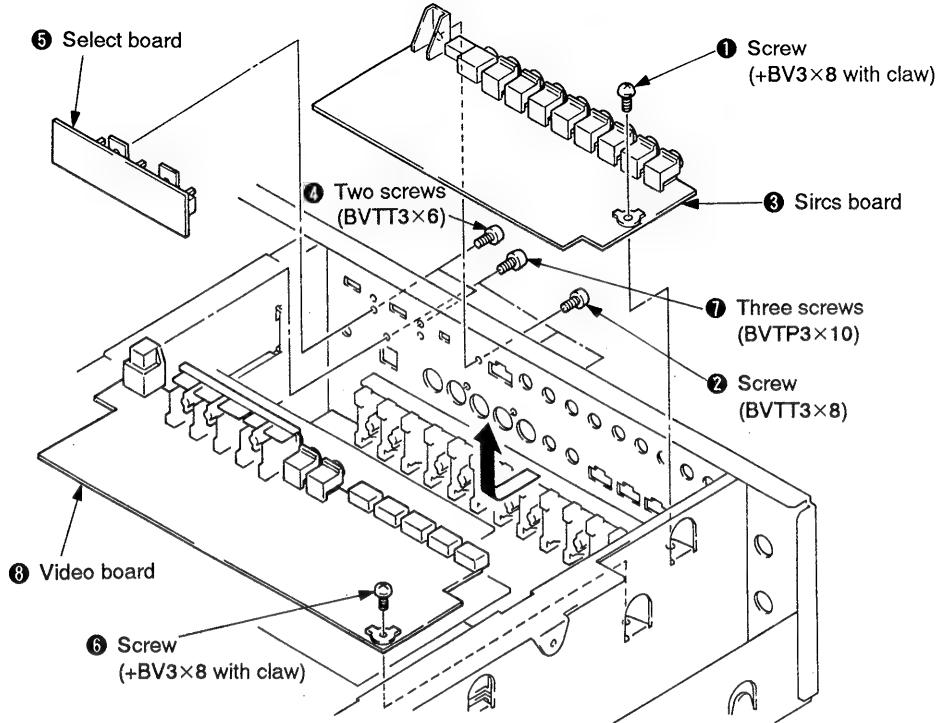
2-4. REMOVAL OF RF BOARD



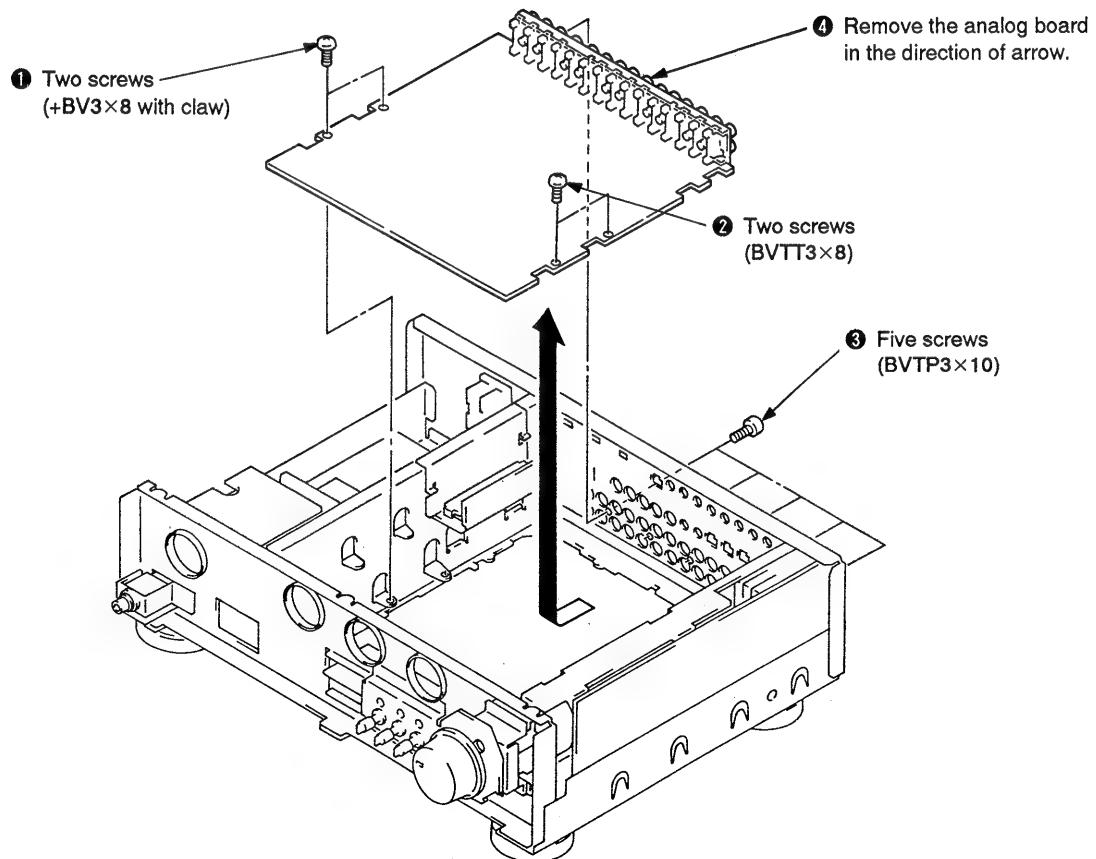
2-5. REMOVAL OF MOTOR VOLUME BOARD



2-6. REMOVAL OF VIDEO, SIRCS AND SELECT BOARDS



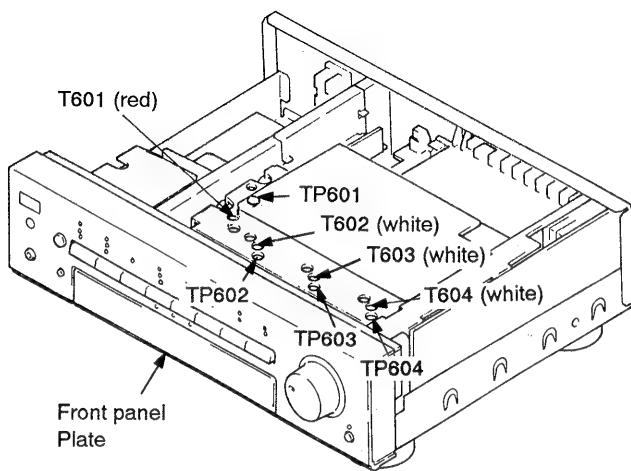
2-7. REMOVAL OF ANALOG BOARD



SECTION 3

ELECTRICAL ADJUSTMENT

[VCO Adjustment]



With only upper cover removed, adjustment can be done through holes of shield case using regulating rod.

Adjusting method:

1. Connect cable to CD1 DIGITAL INPUT (optical) terminal and input the signal (sampling frequency: 44.1 kHz).
2. Connect digital voltmeter to TP601.
3. Adjust T601 for $2.8 \pm 0.3V$ with regulating rod.
4. Perform the same adjustments as in steps 2 and 3 with TP602 and T602.
5. Perform the same adjustments as in steps 2 and 3 with TP603 and T603.
6. Perform the same adjustments as in steps 2 and 3 with TP604 and T604.

Adjusting board: DIGITAL board

[RX Adjustment]

Adjusting method:

1. Disconnect CNP807 (+15V) from the board.
2. Connect signal generator to "TO DST SIGNAL COMBINER" terminal and input the 5 kHz rectangular waveform (carrier: 15.5 MHz, level: -60 dBm, deviation: 75 kHz, impedance: 75Ω).
3. Connect oscilloscope to CNP806 RX terminal.
4. Adjust T801 with regulating rod so that the waveform duty ratio of oscilloscope becomes 50%.
5. Adjust the signal generator output for -70 dBm.
6. Adjust RV801 until the voltage at RX terminal becomes 0V (muted condition).

Adjusting board: RF board

[CONTROL IR Output Adjustment]

Perform the following adjustments only when the customer has complained that the CONTROL IR does not function. Otherwise, following adjustments are not necessary. Adjust RV750 through RV756 to mechanical center (mid-range), normally.

Adjusting method:

1. Connect the equipments. (Connect the LED emitter with the audio/video equipment which the customer uses.) Refer to Fig. 1.
2. Adjust RV750 through RV756 (adjust only the complained control) until the equipment which is to be controlled operates.
3. When the adjustment can not be completed by above adjustments and more output is required, short-circuit the variable resistor and change the resistor connected in series to smaller value. Refer to Fig. 2.

Connection:

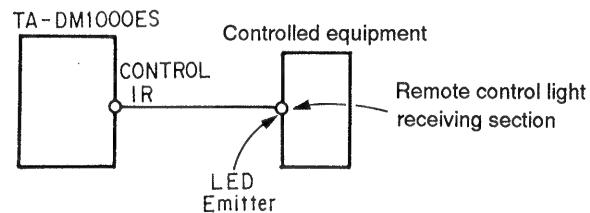


Fig. 1.

Adjusting board: SIRCS board

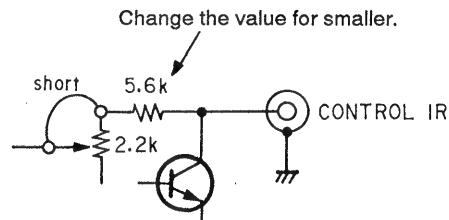
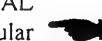
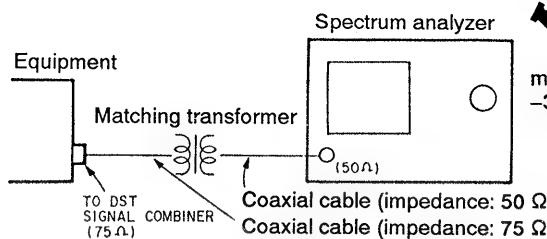


Fig. 2.



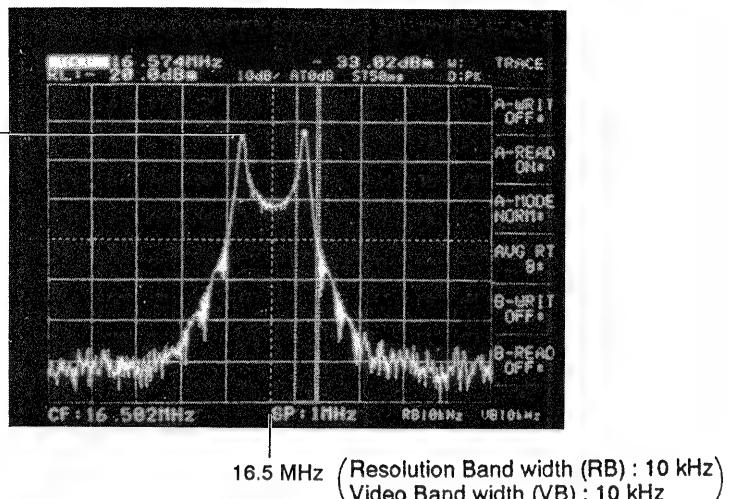
[TO DST SIGNAL COMBINER Output Check]

Connection:

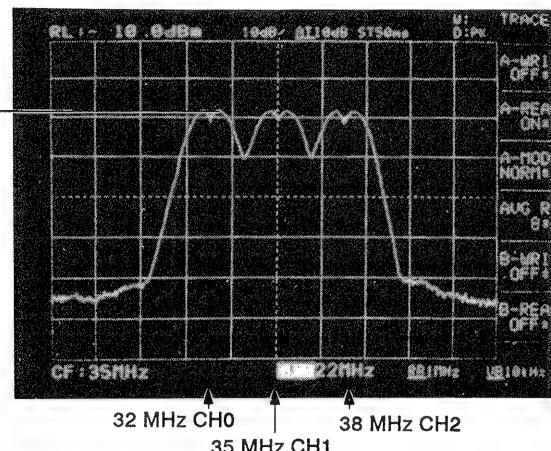


1. Disconnect CNP807 ($\pm 15V$, yellow 2-pin) from the RF board.
 (Note: If not, the spectrum analyzer will be damaged.)
2. Connect spectrum analyzer to "TO DST SIGNAL COMBINER" through matching transformer.
3. Connect cable to CD1 DIGITAL INPUT (optical) terminal and input the signal (sampling frequency: 44.1 kHz).
4. Check that the following waveforms are displayed with spectrum analyzer.

• Remote control signal

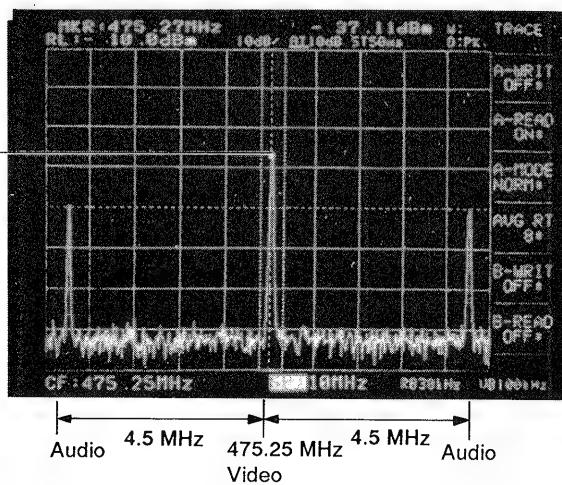


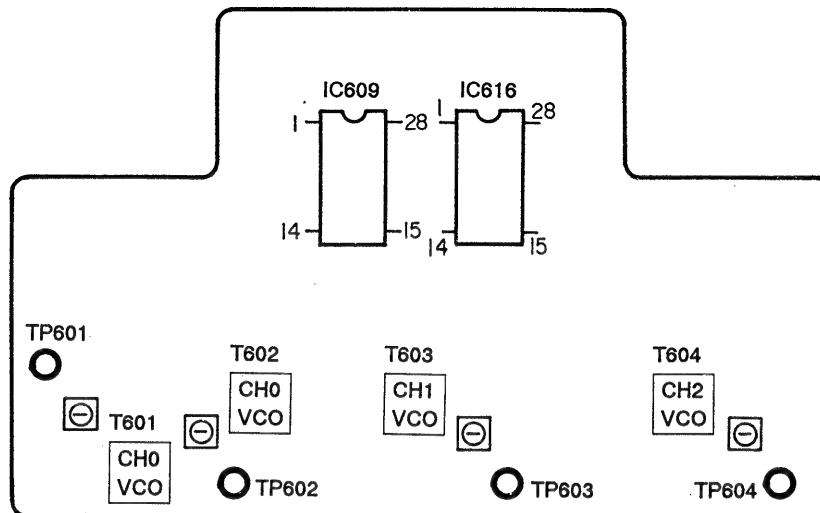
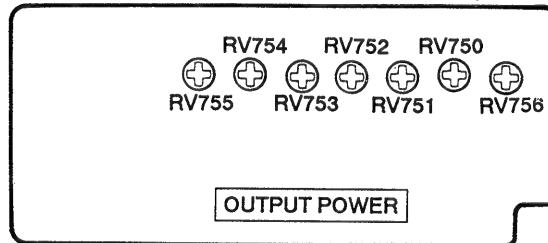
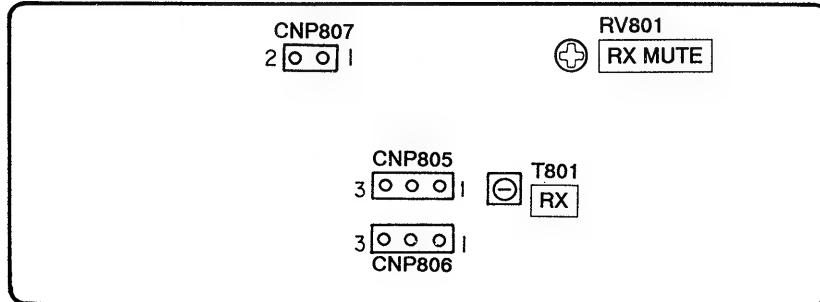
• PCM digital signal

more than
-36 dBm(Resolution Band width (RB) : 1 MHz)
 Video Band width (VB) : 10 kHz

• Video/audio signal

-36 ± 5 dBm

(Resolution Band width (RB) : 30 kHz)
 Video Band width (VB) : 100 kHz

ADJUSTMENT ELEMENTS LOCATION**DIGITAL BOARD (COMPONENT SIDE)****SIRCS BOARD (COMPONENT SIDE)****RF BOARD (COMPONENT SIDE)**

SECTION 4

IC PIN FUNCTIONS

- **IC701 System Controller (μPD78224GJ-559-5BG) Pin Functions**

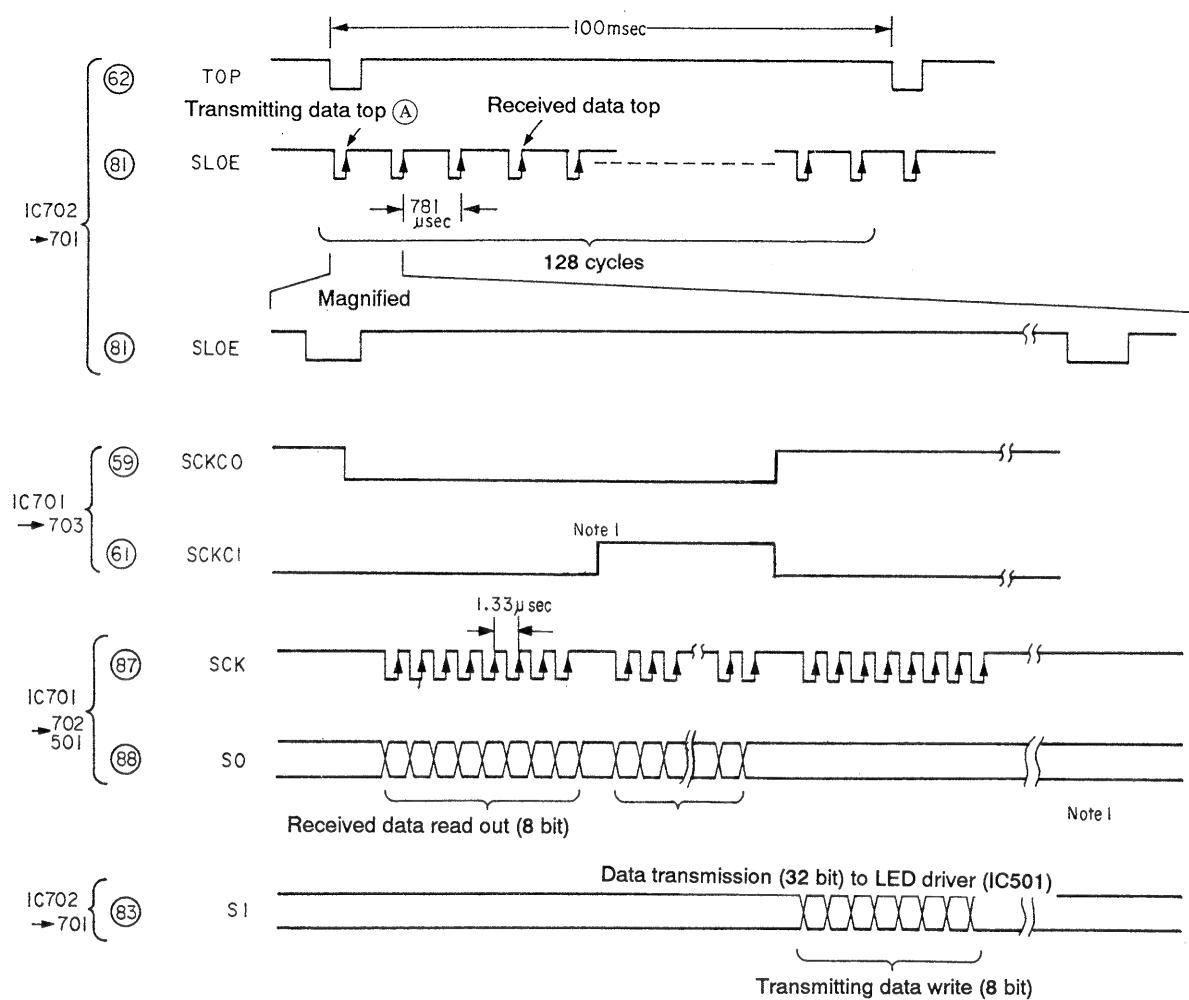
IC701 functions as audio/video signal selector, various remote control signal controller, key input and LED display controller, etc, while transmitting and receiving the data with sub system (TA-DL100) through multilink encoder (IC702).

Pin No.	Pin Name	I/O	Description
1	—	—	Not used
2	—	—	Not used
3	TAPE2/DAT	I	Category code setting input (S780) for device connected to TAPE 2/DAT.
4	POWER OFF	I	Power switch (S521) input. "L": power OFF
5	P-COM-LEARN	I	Learning end detect output of remote control signal from learning remote controller (IC705).
6	LEARN/USER	I	USER/LEARN switch (S524) input. "L": LEARN, "H":USER
7	RESET	I	System reset signal input
8	VDD	—	Power terminal (+5V)
9	X2	O	Clock output
10	X1	I	Clock input (12 MHz)
11	Vss	—	Power terminal (GND)
12	Vss	—	Power terminal (GND)
13	IC	—	Connected to ground.
14	VIDEO1	O	Output of SIRCS signal divided into category.
15	VIDEO2	O	Output of SIRCS signal divided into category.
16	TAPE1	O	Output of SIRCS signal divided into category.
17	TAPE2	O	Output of SIRCS signal divided into category.
18	CD1	O	Output of SIRCS signal divided into category.
19	CD2	O	Output of SIRCS signal divided into category.
20	TUNER	O	Output of SIRCS signal divided into category.
21	—	—	Not used
22	—	—	Not used
23	EN	O	Enable output to IC706 through IC708. "L": enable
24	RAMCLR	O	When performing RAM CLEAR of learning remote controller: "L"
25	D5	O	Remote control code/category code select data output to IC706 through IC708.
26	D4	O	Remote control code/category code select data output to IC706 through IC708.
27	D3	O	Remote control code/category code select data output to IC706 through IC708.
28	D2	O	Remote control code/category code select data output to IC706 through IC708.
29	D1	O	Remote control code/category code select data output to IC706 through IC708.
30	D0	O	Remote control code/category code select data output to IC706 through IC708.
31	—	—	Not used
32	DI	O	Serial data output to analog function switches (IC101 through IC104, and IC403).
33	CLK	O	Data transmission clock output to analog function switches (IC101 through IC104, and IC403).
34	CE	O	Chip enable output to analog function switches (IC101 through IC104 and IC1403).
35	—	—	Not used
36	-20dB MUTE	O	-20 dB attenuator ON/OFF output. "L": attenuation, "H": normal.
37	RELAY	O	Power relay (RY901) ON/OFF output. "H": relay ON
38	MUTE	O	Muting output for PRE OUT and HEADPHONE. "L": mute

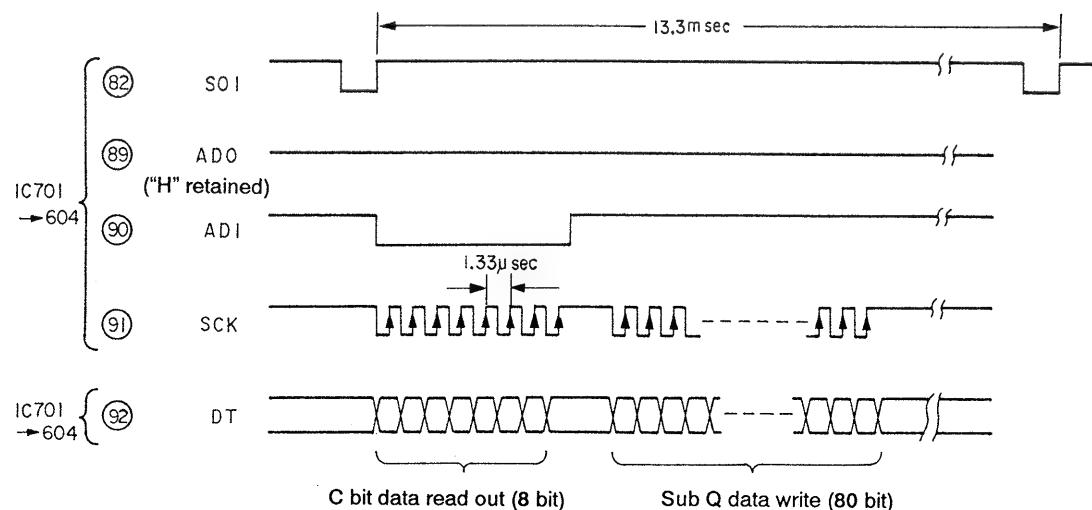
Pin No.	Pin Name	I/O	Description			
39	DATA2	O	DOWN signal output for volume motor (RV304)		* Volume motor control	
40	DATA1	O	UP signal output for volume motor (RV304)		DATA1 ⑨	
41	—	—	Not used		UP (clockwise)	H
42	KEYIN7	I	Key scan input			L
43	KEYIN6	I	Key scan input			
44	KEYIN5	I	Key scan input			
45	KEYIN4	I	Key scan input			
46	KEYIN3	I	Key scan input			
47	KEYIN2	I	Key scan input			
48	KEYIN1	I	Key scan input			
49	KEYIN0	I	Key scan input			
50	—	—	Not used			
51	Vss	—	Power terminal (GND)			
52	Vss	—	Power terminal (GND)			
53	IC	—	Connected to ground.			
54	EA	I	Connected to +5V.			
55	NC	—	Not used			
56	0	O	Key scan output			
57	1	O	Key scan output			
58	2	O	Key scan output			
59	SCKC0	O	Data transmission clock select control output to clock selector (IC703).		* Clock selector selection	
60	NC	—	Not used			
61	SCKC1	O	Data transmission clock select control output to clock selector (IC703).		IC702	IC501
					Transmission	Transmission
					Reception	
					Pin ⑨ SCKC0	L
						H
					Pin ⑩ SCKC1	L
						H
62	TOP	I	Signal (100 Hz) input to inform the data top from multilink encoder (IC702).			
63	ERROR	I	Received data error detect input from multilink encoder (IC702). "H": error found.			
64	SIRCS IN	I	Remote control signal input from remote control sensor (IC502) and CONTROL S IN (CNJ750 and CNJ751).			
65	VDD	—	Power terminal (+5V)			
66	VDD	—	Power terminal (+5V)			
67	OE	O	OUTPUT ENABLE output to IC501 (LED driver)			
68	LE	O	LATCH ENABLE output to IC501 (LED driver)			
69	DRLC	O	DRLC LED (+9V power) ON/OFF output to CONTROL S (CNJ750)			
70	NC	—	Note used			

Pin No.	Pin Name	I/O	Description
71	—	—	Not used
72	—	—	Not used
73	—	—	Not used
74	UNLOCK	I	PLL UNLOCK detect input from CH1 EFM encoder (IC604). "H": unlocked
75	—	—	Not used
76	STOP	I	Power stop detect input. "L": power failure
77	—	—	Not used
78	NC	—	Not used
79	—	—	Not used
80	—	—	Not used
81	SLDE	I	Data request input from multilink encoder (IC702)
82	S01	I	Reference pulse input (75 Hz) from CH1 EFM encoder (IC604). Sync portion: "L"
83	SI	I	Received data input from multilink encoder (IC702). Half clock is delayed by IC704.
84	NC	—	Not used
85	—	—	Not used
86	—	—	Not used
87	SCK	O	Serial data transmission clock output (750 kHz) to IC702 (multilink encoder) and IC501 (LED extension port). Clock is separated into three (transmission and reception with IC702 and transmission to IC501) by clock selector (IC703).
88	SO	O	Serial data output to IC702 (multilink encoder) and IC501 (LED extension port).
89	SINAD0	O	Data transmission mode setting output to CH1 EFM encoder (IC604).
90	SINAD1	O	Data transmission mode setting output to CH1 EFM encoder (IC604).
91	SINCK	O	Data transmission clock output to CH1 EFM encoder (IC604).
92	SINDT	I/O	Serial data input/output terminal with CH1 EFM encoder (IC604).
93	VIDEO1	I	Category code setting input (S782) of connected device to VIDEO 1.
94	VIDEO2	I	Category code setting input (S781) of connected device to VIDEO 2.

* Timing for serial communication with multilink encoder CX2902S (IC702)



* Timing for serial communication with EFM encoder CXD2520Q (IC604)



- **IC702 Multiple Link Encoder CXD2902S Pin Functions**

IC702 encodes the data supplied from the sub system (TA-DL100) and transmits to IC701 (system controller), and also decodes the data from IC701 to sub system.

Pin No.	Pin Name	I/O	Description
1	TDMI	I	Fixed to "L".
2	TDMG	O	Not used: OPEN
3	EDAT	I	Not used: "L"
4	B1DT	O	Not used: OPEN
5	SYS1	O	Not used: OPEN
6	PBCK2	O	Not used: OPEN
7	BCK2	I	Clock input to modulate in bi-phase to 1024 bit data from IC701 (system controller).
8	SYN0	O	2BCK output. Connect to Pin ⑦.
9	PBCK	O	Not used: OPEN
10	BCK1	I	Basic clock input to read and write the received data in internal RAM.
11	BCK0	O	1/1024 frequency-divided output of master clock (10.48576 MHz). Connected to Pin ⑩.
12	BCK3	O	1/32 frequency-divided output of master clock (10.48576 MHz). Not used: OPEN
13	WIN	I	Not used: "L"
14	T1	I	Test input. Not used: "L"
15	T2	I	Test input. Not used: "L"
16	GND	-	Power source terminal (GND)
17	MTST	I	Test input. Fixed to "L".
18	XI	I	Clock input (10.48576 MHz)
19	XO	O	Clock output
20	SIO2	O	Output indicating head 4 bit sync position in 64 bit of receiving data. Connected to Pin ⑪.
21	SYNC	I	Input indicating head 4 bit sync position in 64 bit of receiving data.
22	CRC1	O	Clock output to latch the received data error. Connected to Pin ⑫.
23	ERCK	I	Clock input to latch the received data error.
24	CLR9	O	Not used: OPEN
25	CL11	O	Not used: OPEN
26	D0RA	I	Not used: "L"
27	D1PB	I	Not used: "L"
28	D2RC	I	Not used: "L"
29	RD	I	Not used: "L"
30	ED	I	Encode/decode process select input. Fixed (encoded) to "L".
31	LOAD	I	Test terminal. Not used: "H".
32	VDD	-	Power source terminal (+5V)

Pin No.	Pin Name	I/O	Description
33	EX	I	Not used: "L".
34	MS1	I	Not used: "L".
35	CWEE	O	Test monitor terminal. Not used: OPEN
36	SDIN	I	Test terminal. Not used: "L"
37	SP	I	Test terminal. Not used: "L"
38	ABSL	O	Test monitor output. Not used: OPEN
39	REST	I	Internal RAM read out reset input
40	CLRW	O	Internal RAM write cycle output. Connect to Pin ⑩.
41	CLRE	O	Internal RAM write reset output. Connect to Pin ⑪.
42	CLR	I	Internal RAM write reset input.
43	SYC1	O	Not used: OPEN
44	ERR	O	Output of data error detection received from Pin ⑩. "H": error found.
45	MRCK	I	Clock input to read out the received data.
46	D	I	Internal CRC checker input. Connected to Pin ⑫.
47	DOUT	O	Output when IC701 (system controller) reads out the received data.
48	GND	-	Power source terminal (GND)
49	SLOE	O	Output indicating the 128 byte distinction to IC701 (system controller).
50	DIN	I	Data input received from RF part.
51	PBDT	O	Not used: OPEN
52	CWE0	O	Not used: OPEN
53	SUBS	O	Not used: OPEN
54	REQ	O	Not used: OPEN
55	SLO	O	Not used: OPEN
56	CK16	I	Data transmission clock input from IC701 (system controller).
57	DT16	I	Serial data (1024 bit) input from IC701 (system controller).
58	SOUT	O	Not used: OPEN
59	TOP	O	Outputs the signal indicating data head (100 Hz) to IC701 (system controller).
60	BIPH	I	Input to monitor the signal at Pin ⑪.
61	BIDT	O	Terminal to apply bi-phase modulation to data fed from IC701 (system controller) and output with applying CRC.
62	SDAT	O	Not used: OPEN
63	INIT	I	Test initializing input. Not used: "H".
64	VDD	-	Power source terminal (+5V)

- **IC705 Learning Remote Control (μPD17203GC-530-3BH) Pin Functions**

IC705 stores and outputs the remote control signals of other manufacturer by the system controller (IC701) instruction.

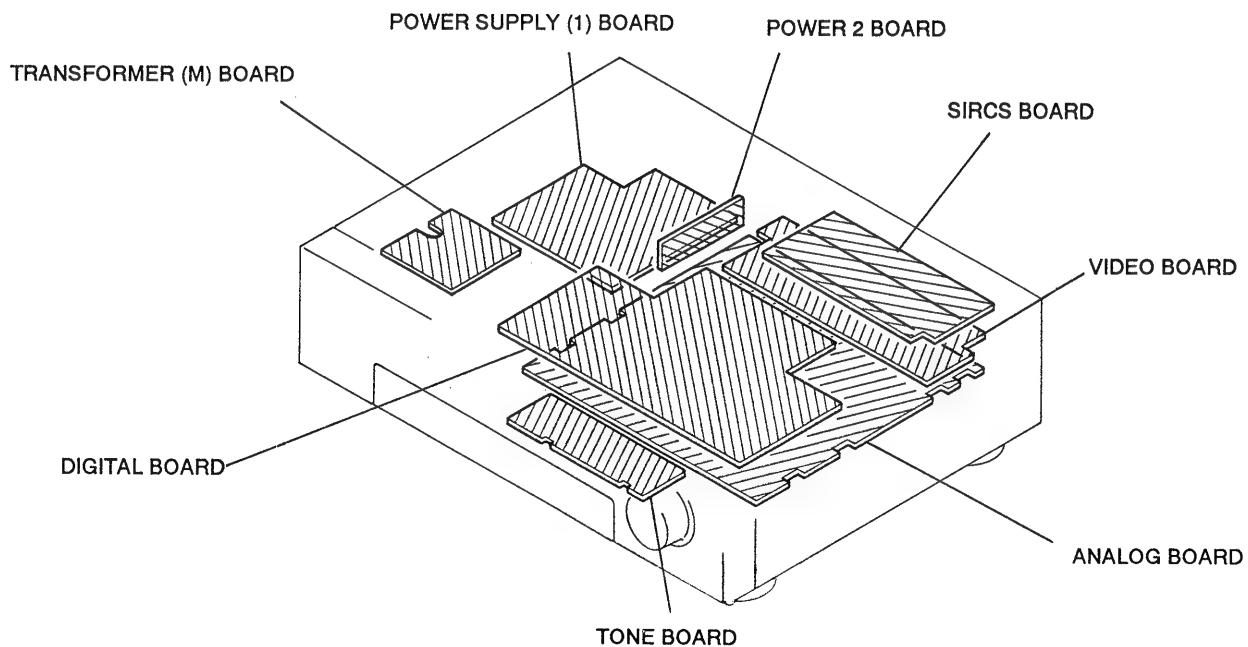
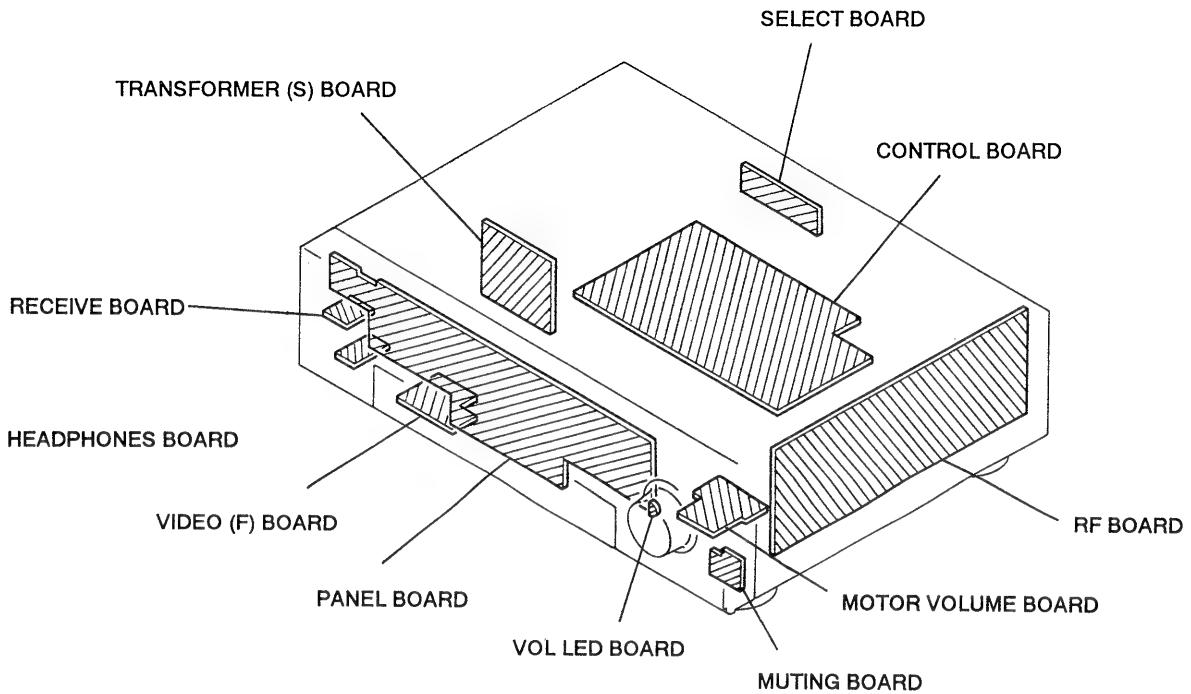
Pin No.	Pin Name	I/O	Description
1	LED	O	Not used. OPEN
2	REM	O	Remote control signal output
3	VXRAM	I	Power terminal for backup
4	VDD	—	Power terminal (+5V)
5	XIN	I	Clock input (4.0 MHz)
6	XOUT	O	Clock output
7	GND	—	Power terminal (GND)
8	RESET	I	Reset signal input
9	VDOUT	O	Not used. OPEN
10	XTIN	I	Not used
11	XTOUT	O	Not used
12	VREG	O	Voltage regulator output
13	VDEG	I	Voltage level setting input for voltage detector
14	GND	—	Power terminal (GND)
15	AMPIN-	I	Input terminal for other manufacturer's remote control signal.
16	GND	—	Power terminal (GND)
17	AMPOUT	O	Output of Pin ⑯ after amplified
18	VREF	O	Reference voltage (1/2 VDD) output
19	COMPIN+	I	Comparator input
20	GND	—	Power terminal (GND)
21	COMPOUT	O	Comparator output. Connected to Pin ⑰.
22	TMO1N	I	Timer O input
23	INT	I	RAM CLEAR input. "L": CLEAR
24	POA0	I	Key matrix input Not key switch but system controller determines the input key by selecting analog switch (IC706 and IC707) in this machine.
25	POA1	I	
26	POA2	I	
27	POA3	I	
28	POB0	I	
29	POB1	I	
30	POB2	I	
31	POB3	I	

Pin No.	Pin Name	I/O	Description
32	—	O	Not used
33	GND	—	Power terminal (GND)
34	—	O	Not used
35	P0C2	O	Key matrix output
36	P0C3	I	Key matrix output
37	P0D0	I	Key matrix output
38	P0D1	I	Key matrix output
39	P0D2	I	Key matrix output
40	P0D3	I	Key matrix output
41	P1A0	I	Key matrix output
42	P1A1	I	Key matrix output
43	—	I	Not used
44	P1A3	O	Other manufacturer's remote control code. "L": when input
45	LEARN	I	USER/LEARN switch (S524) input. "L": LEARN, "H": USER
46	STD	I	Not used
47	TAPE	I	Not used
48	LEARN	O	Output to inform the end of learning to system controller (IC701).
49	TV	I	Not used
50	AMP	I	Not used
51	VTR2	I	Not used

SECTION 5

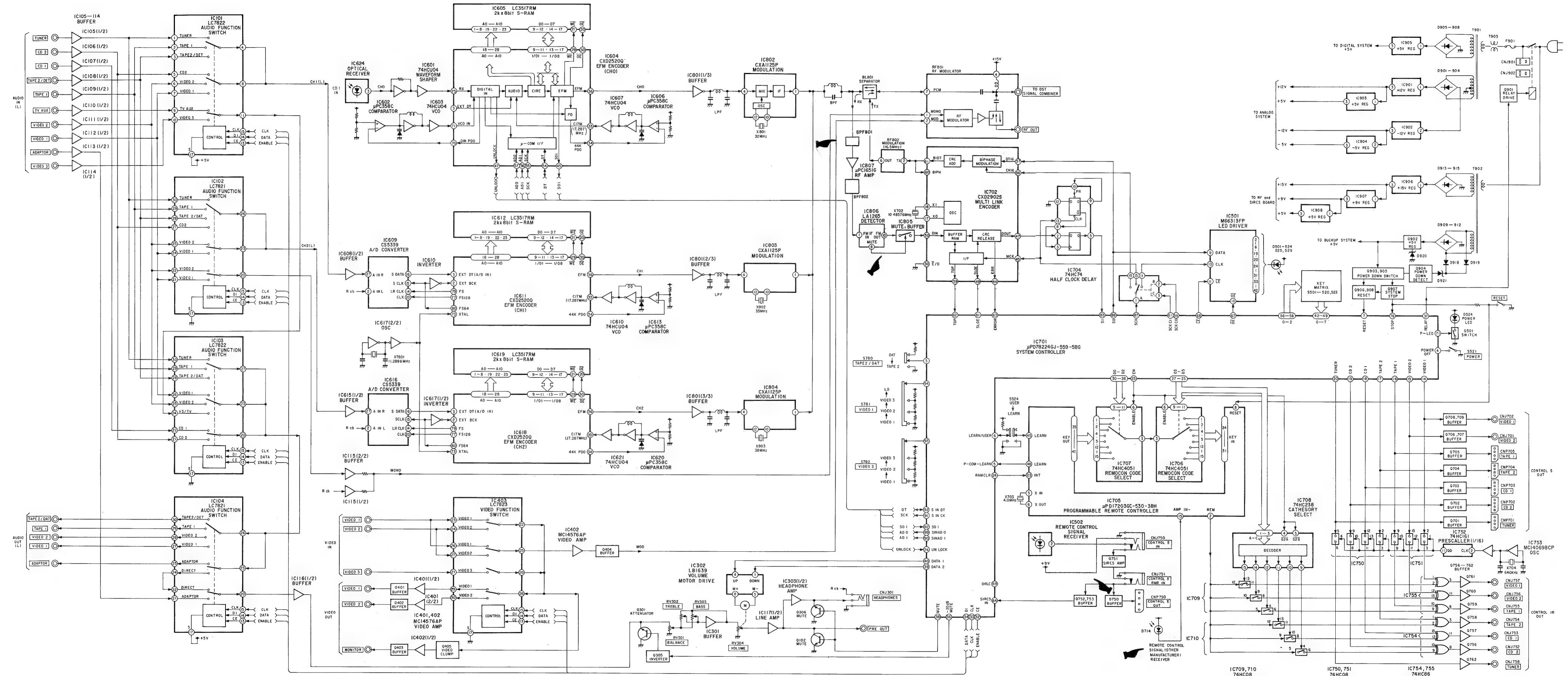
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



5-2. BLOCK DIAGRAM

REVISED



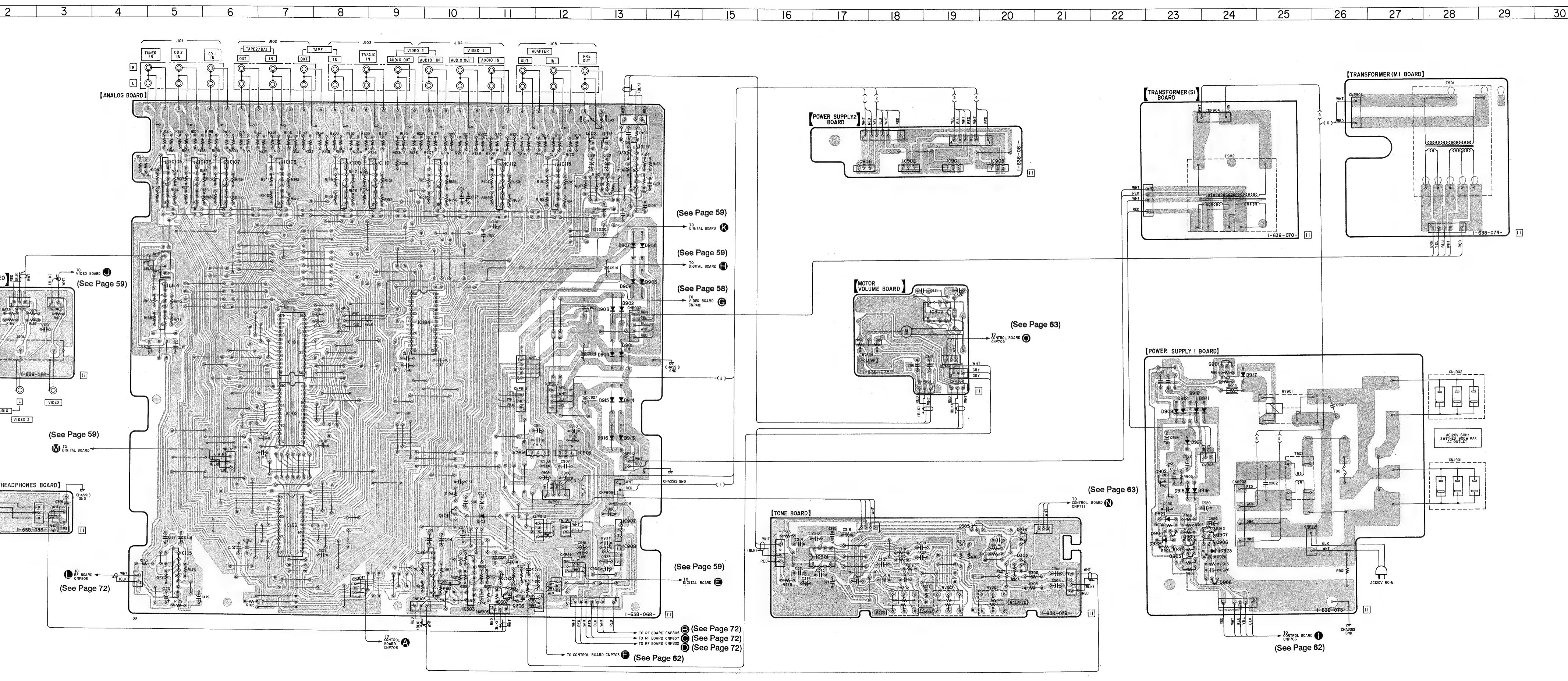
-3. PRINTED WIRING BOARDS —ANALOG SECTION—

See page 75 for Semiconductor Lead Layouts
See page 76 to 78 for IC Block Diagrams

UNCONDUCTOR LOCATION

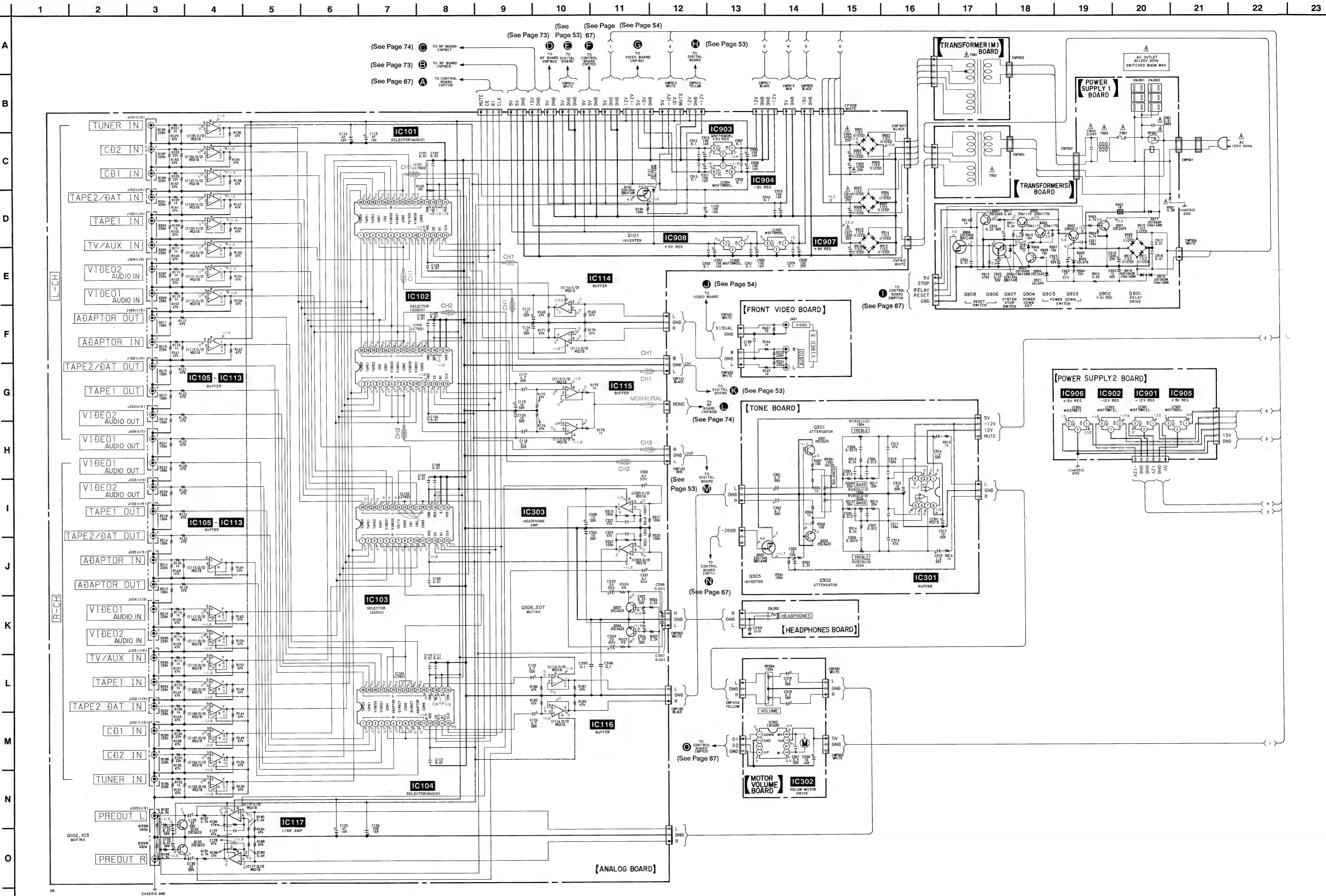
o.	Location	Ref. No.	Location
	I-10	Q101	I-10
	F-13	Q102	C-12
	F-13	Q103	C-13
	F-13	Q301	J-20
	F-13	Q302	J-20
	E-13	Q306	K-11
	D-13	Q307	K-11
	D-13	Q901	G-24
	E-13	Q902	I-23
	G-23	Q903	J-23
	G-23	Q904	J-23
	G-23	Q905	J-23
	G-23	Q906	J-24
	H-13	Q907	J-24
	G-13	Q908	J-24
	G-13		
	H-13		
	G-24		
	I-23		
	I-23		
	H-23		
	I-23		
	J-23		
	J-24		
	F-7		
	G-7		
	J-7		
	F-8		
	C-5		
	C-5		
	C-6		
	C-7		
	C-8		
	C-8		
	C-10		
	C-11		
	C-12		
	D-5		
	J-5		
	J-9		
	C-14		
	J-17		
	F-19		
	J-10		
	C-19		
	C-18		
	H-12		
	H-11		
	C-20		
	C-17		
	J-13		
	J-13		

- : parts extracted from the component side.
- : parts mounted on the conductor side.
- : Pattern on the side which is seen.

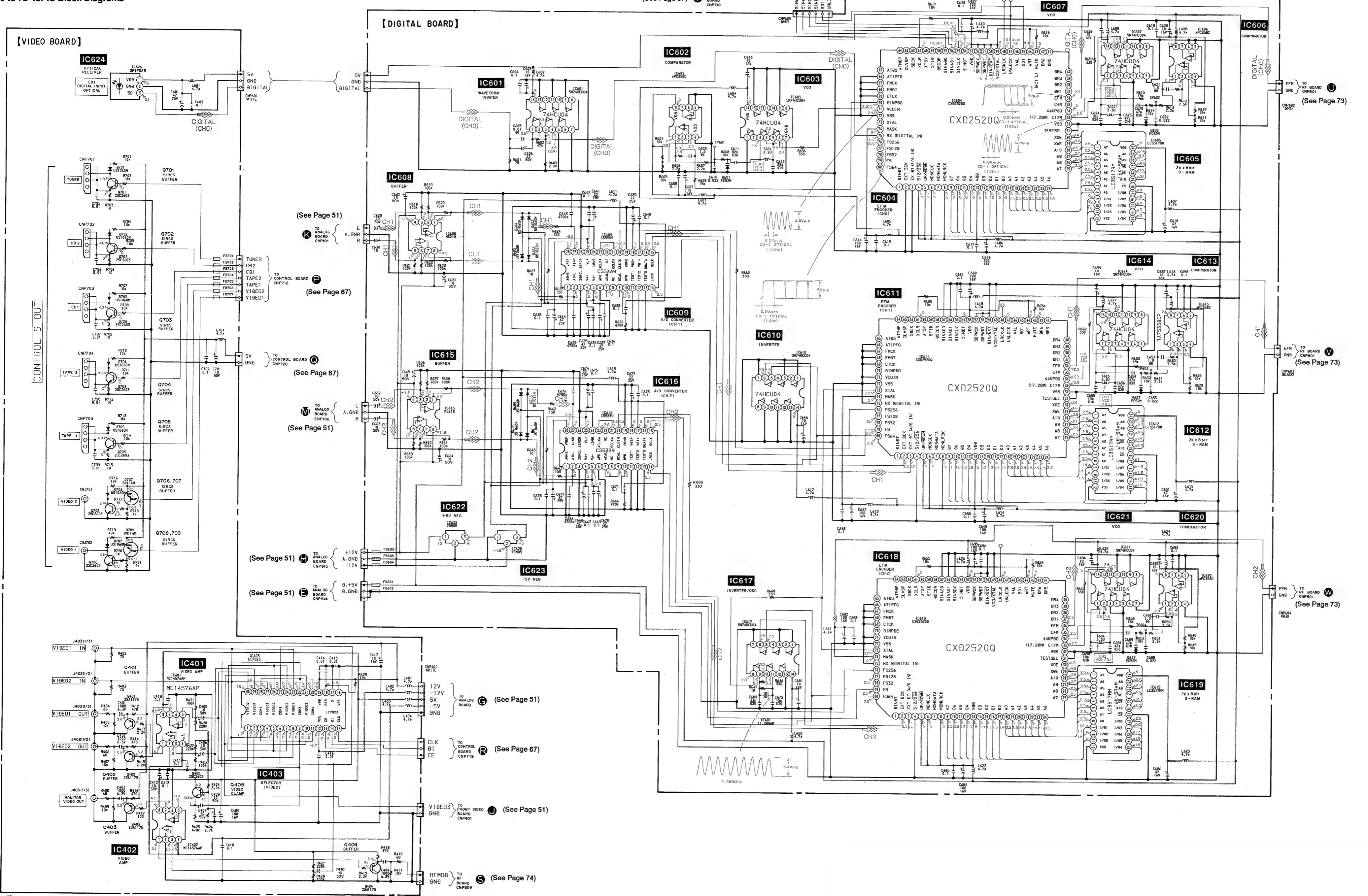


Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
-  : B+ Line
-  : B- Line
-  : adjustment for repair.
- Voltage and waveforms are dc with respect to ground in CD-1 mode.
no mark: CD-1 no signal.
(): CD-1 optical input.
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 : AUDIO/DIGITAL/VIDEO/RX/TX



- See page 75 for Semiconductor Lead Layouts
- See page 76 to 78 for IC Block Diagrams



itors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$
less are not indicated except for electrolytics
lums.

ors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise
+ Line
- Line
djustment for repair.
and waveforms are dc with respect to ground
node.
CD-1 no signal.
CD-1 optical input.
are taken with a VOM (Input impedance $10\text{M}\Omega$).
variations may be noted due to normal produc-
ances.
s are taken with a oscilloscope.
variations may be noted due to normal produc-
ances.
h.

AUDIO/DIGITAL/VIDEO/BX/TX

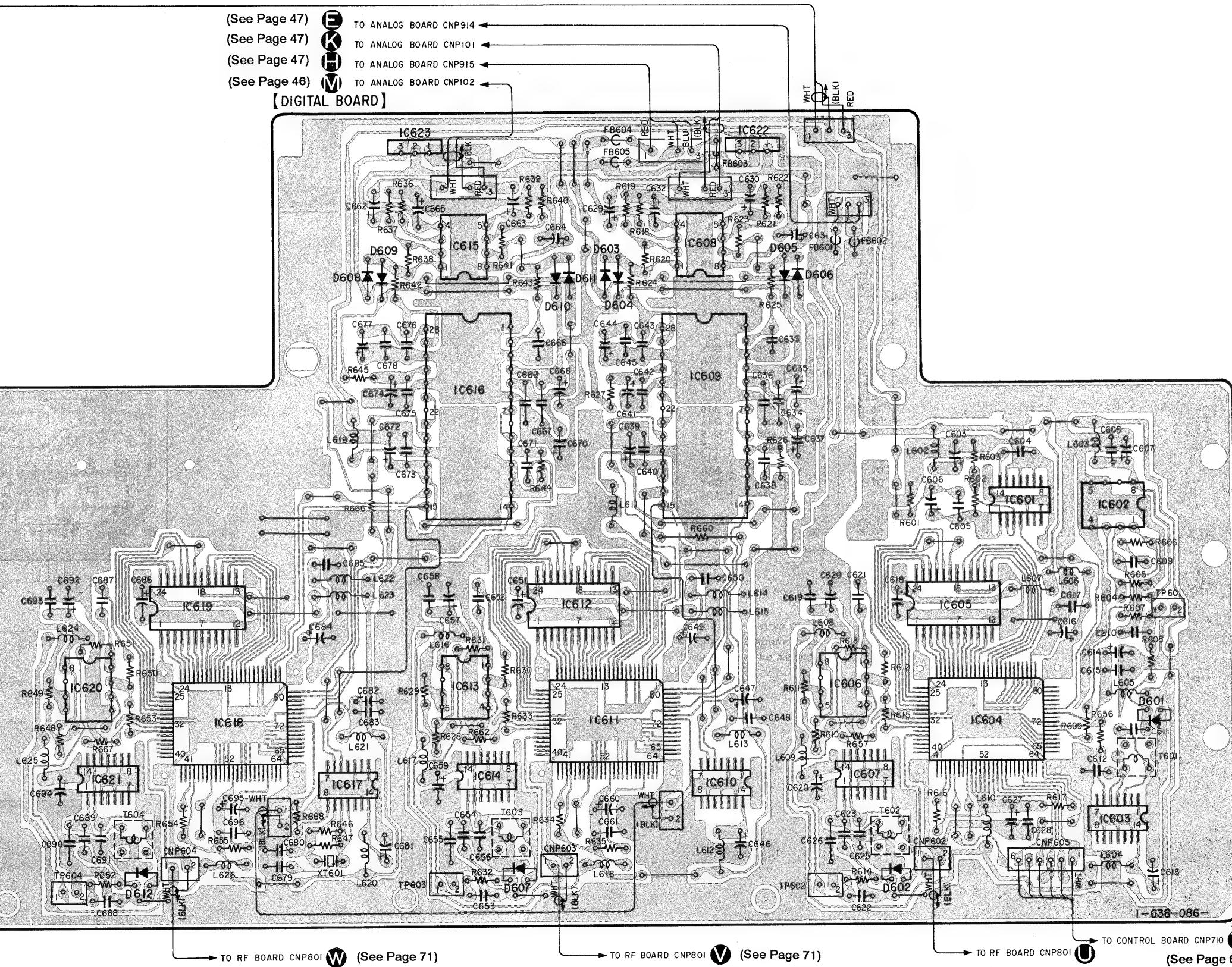
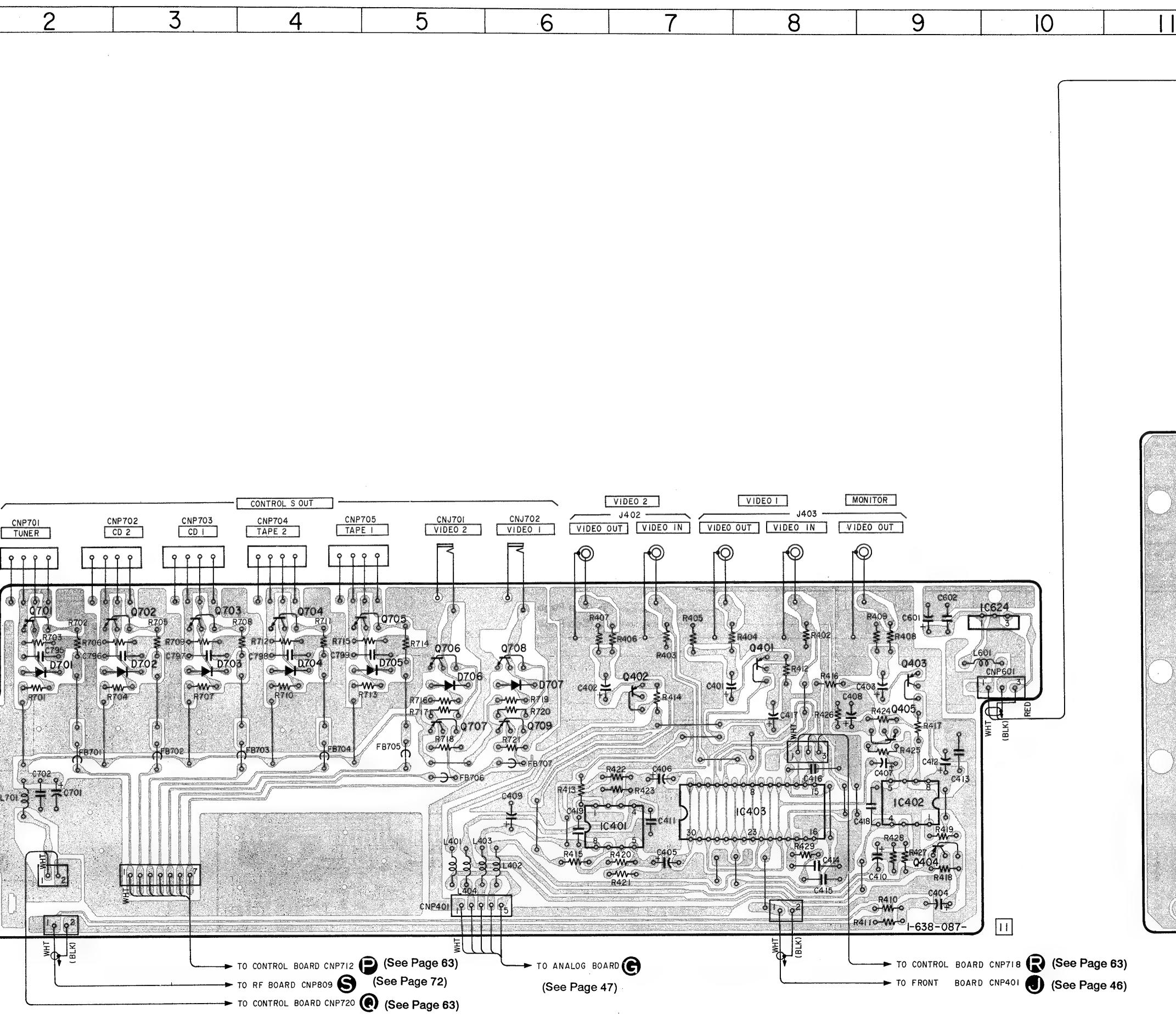
6-6. PRINTED WIRING BOARDS —DIGITAL SECTION—

- See page 75 for Semiconductor Lead Layouts
- See page 76 to 78 for IC Block Diagrams

SEMICONDUCTOR LOCATION

No.	Location	Ref. No.	Location
	F-19	Q401	F-8
	G-17	Q402	F-7
	C-15	Q403	F-9
	C-15	Q404	G-9
	C-17	Q405	F-9
	C-17	Q701	E-2
	G-15	Q702	E-2
	C-14	Q703	E-3
	C-14	Q704	E-4
	C-15	Q705	E-4
	C-15	Q706	E-5
	G-12	Q707	E-6
	F-2	Q708	F-5
	F-2	Q709	F-6
	F-3		
	F-4		
	F-4		
	F-5		
	F-6		
	G-6		
	G-9		
	G-7		
	E-18		
	E-19		
	G-19		
	F-18		
	E-18		
	F-17		
	G-17		
	C-16		
	D-16		
	G-16		
	F-15		
	E-15		
	F-14		
	G-14		
	C-14		
	D-14		
	G-13		
	F-12		
	E-12		
	F-11		
	G-12		
	B-16		
	B-14		
	G-5		

- : parts extracted from the component side.
- : parts mounted on the conductor side.
- : Pattern on the side which is seen.



5-7. PRINTED WIRING BOARDS --CONTROL SECTION--

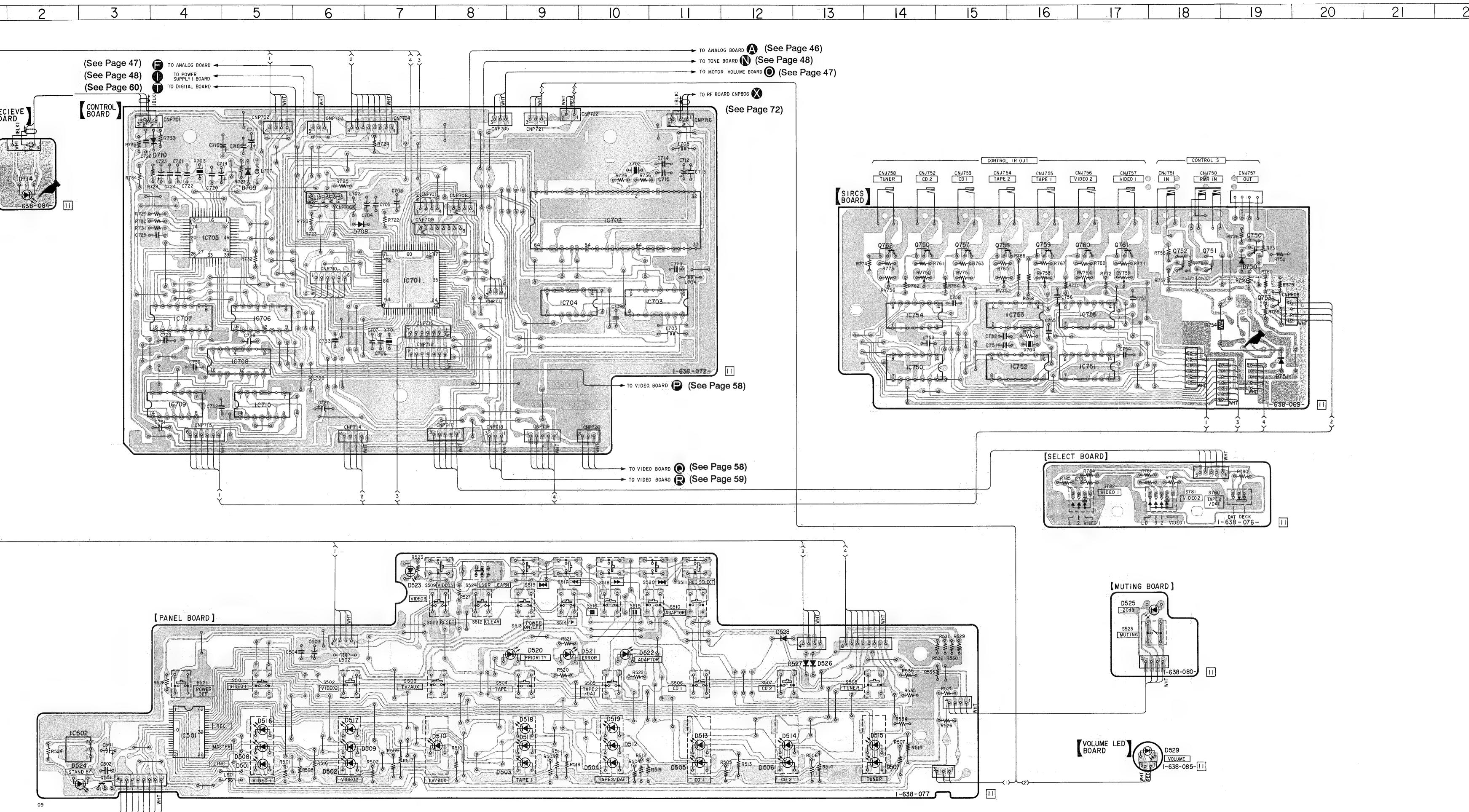
- See page 75 for Semiconductor Lead Layouts
- See page 76 to 78 for IC Block Diagrams

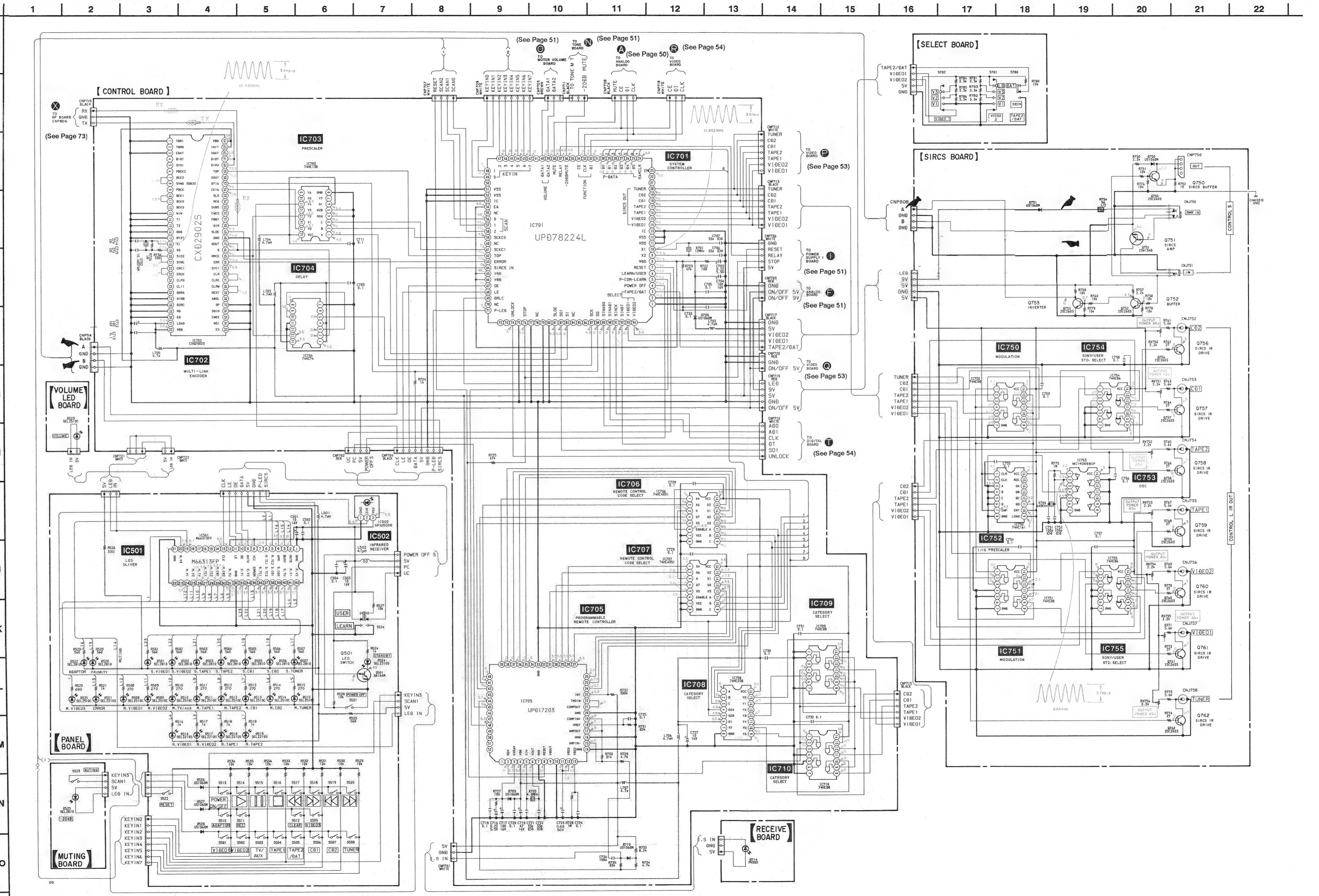
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D501	K-5	IC501	J-4
D502	K-6	IC502	K-2
D503	K-9	IC701	D-7
D504	K-10	IC702	C-10
D505	K-11	IC703	D-10
D506	K-12	IC704	D-9
D507	K-13	IC705	C-4
D508	K-5	IC706	E-5
D509	K-6	IC707	E-4
D510	K-7	IC708	E-5
D511	K-9	IC709	F-4
D512	K-10	IC710	F-5
D513	K-11	IC750	E-14
D514	K-12	IC751	E-16
D515	K-13	IC752	D-15
D516	J-5	IC753	D-15
D517	J-6	IC754	E-14
D518	J-9	IC755	E-16
D519	J-10		
D520	I-8	Q501	K-3
D521	I-9	Q750	D-19
D522	I-10	Q751	D-18
D523	H-7	Q752	D-18
D524	K-2	Q753	D-19
D525	I-7	Q754	E-19
D526	I-13	Q755	D-19
D527	I-12	Q756	D-14
D528	I-12	Q757	D-15
D529	K-17	Q758	D-15
D708	C-6	Q760	D-16
D710	C-5	Q760	D-16
D714	B-8	Q761	D-17
D750	C-2	Q762	D-14
D751	D-18		
D752	E-19		
	E-18		

Note:

- : parts extracted from the component side.
- : parts mounted on the conductor side.
- : Pattern on the side which is seen.

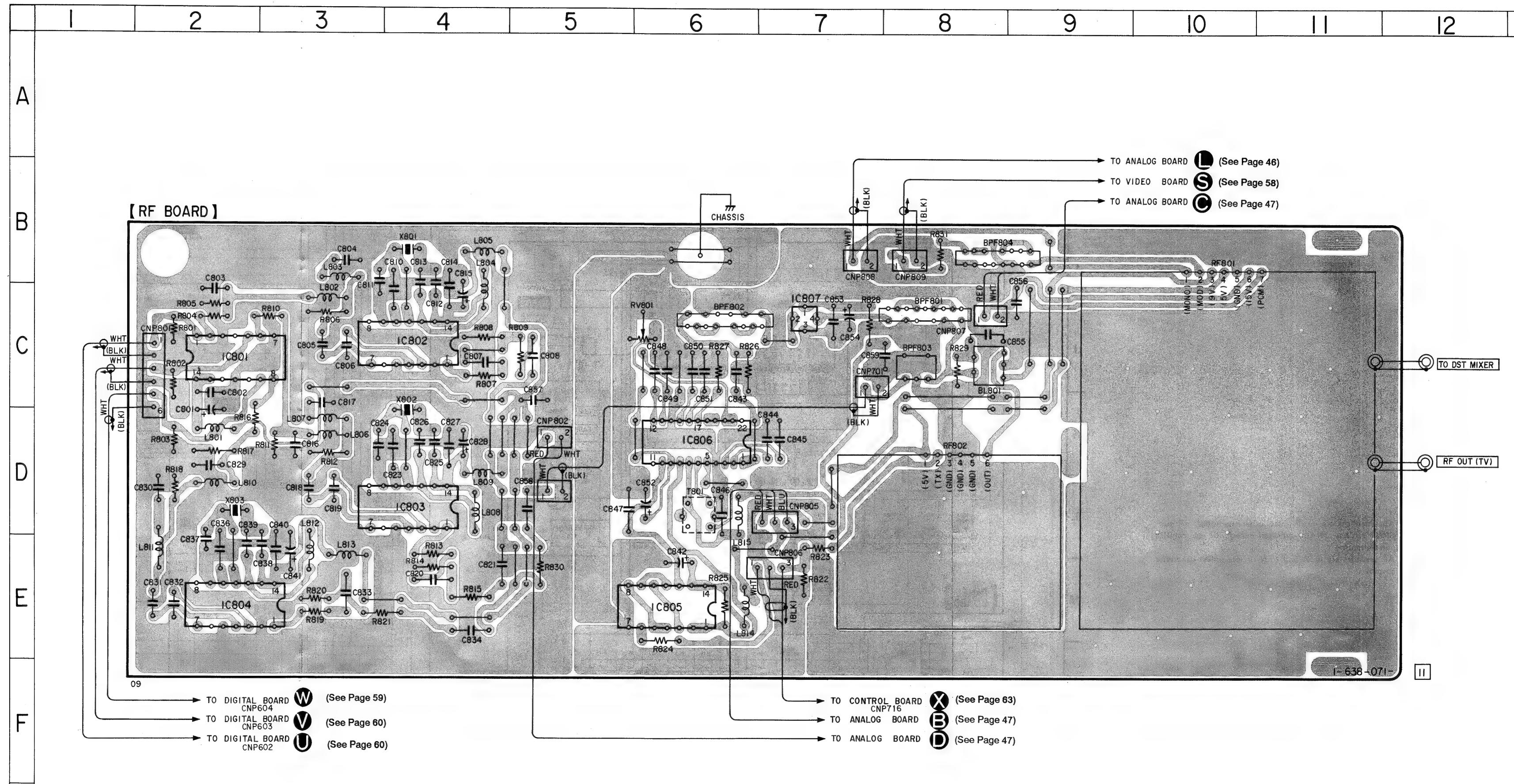




5-9. PRINTED WIRING BOARDS —RF SECTION—
 • See page 75 for Semiconductor Lead Layouts
 • See page 76 to 78 for IC Block Diagrams

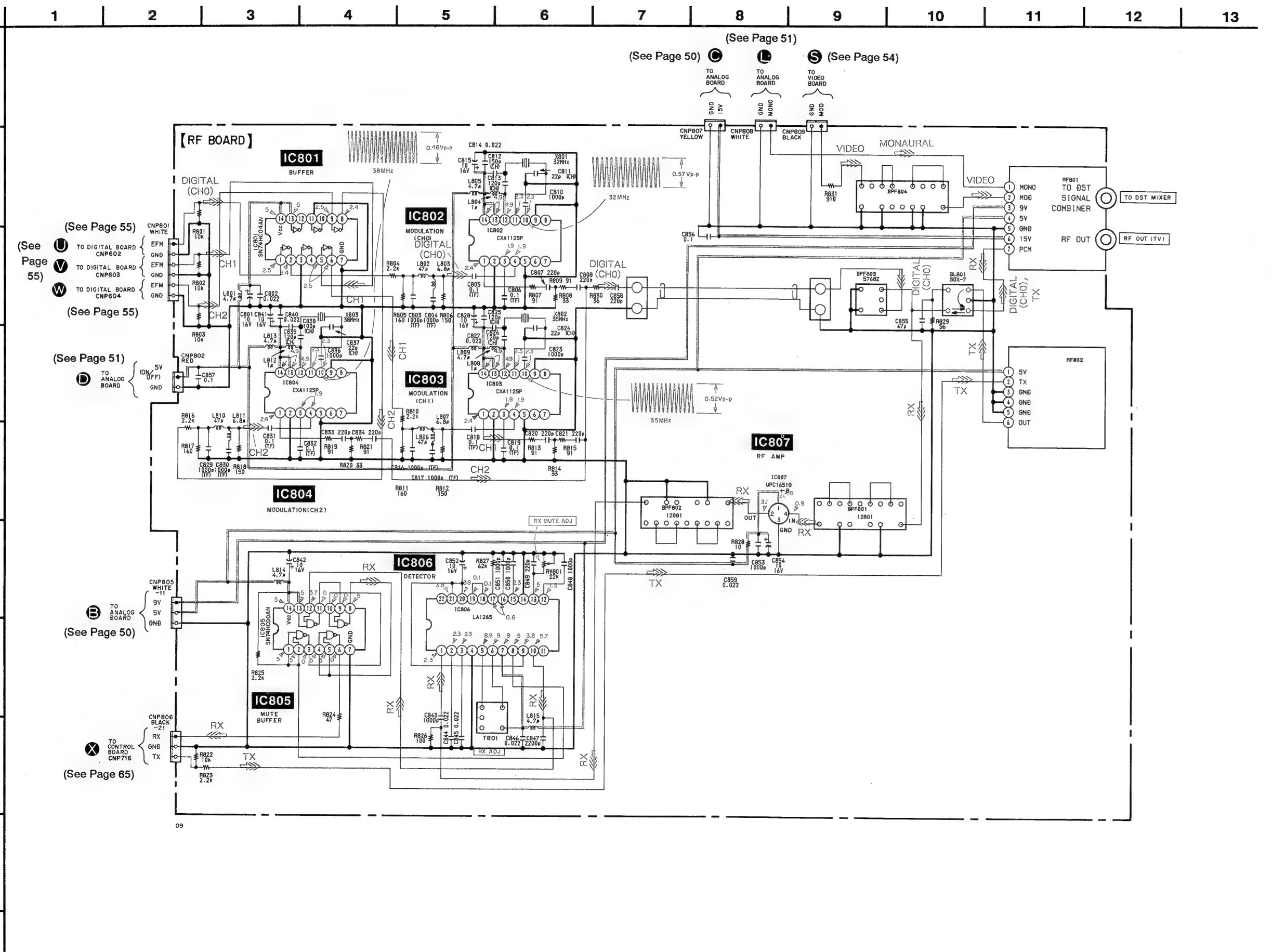
• SEMICONDUCTOR LOCATION

Ref. No.	Location
IC801	C-2
IC802	C-4
IC803	D-4
IC804	E-2
IC805	E-6
IC806	E-6
IC807	D-6
	C-7

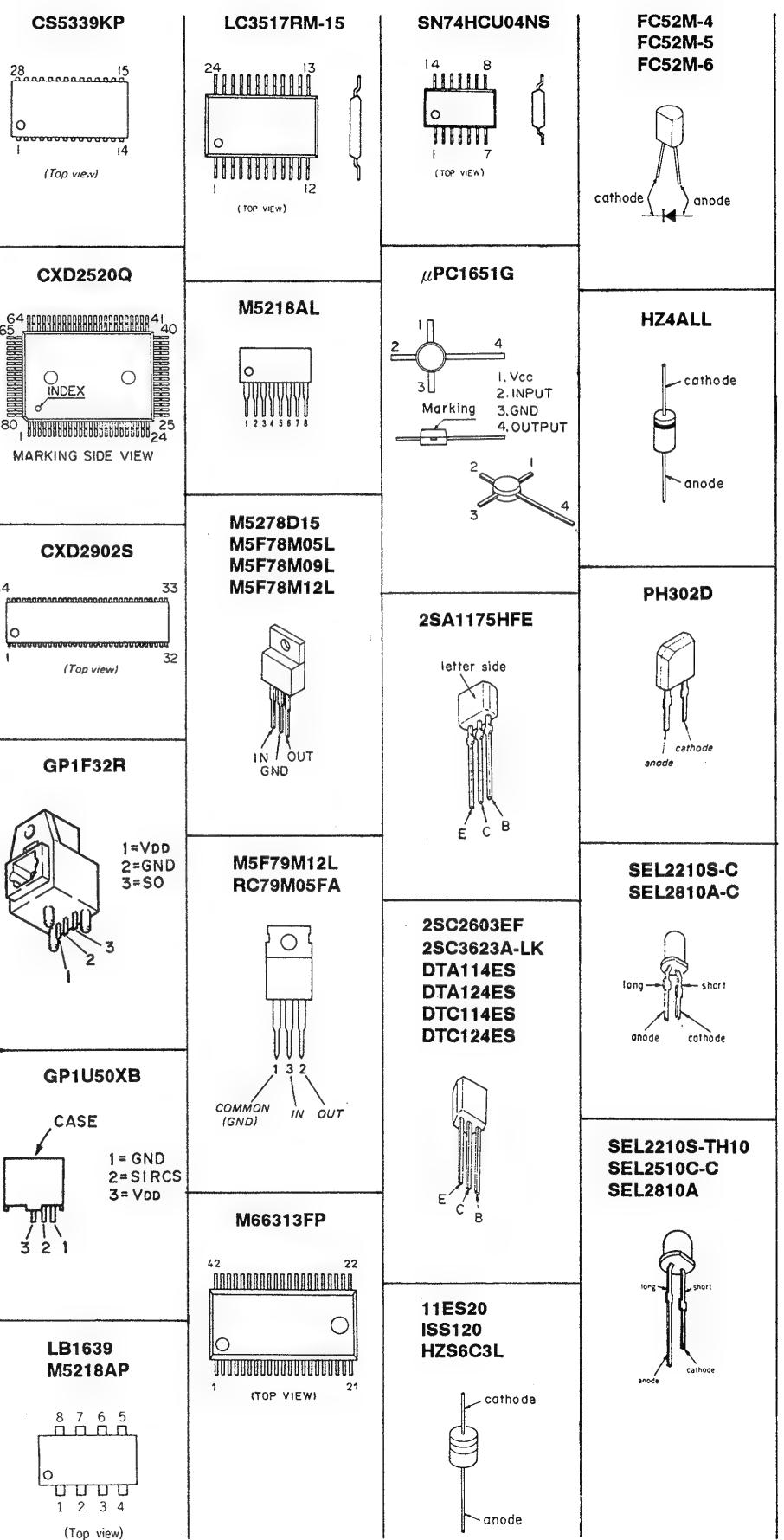


5-10. SCHEMATIC DIAGRAM —RF SECTION—

- See page 75 for Semiconductor Lead Layouts
- See page 76 to 78 for IC Block Diagrams

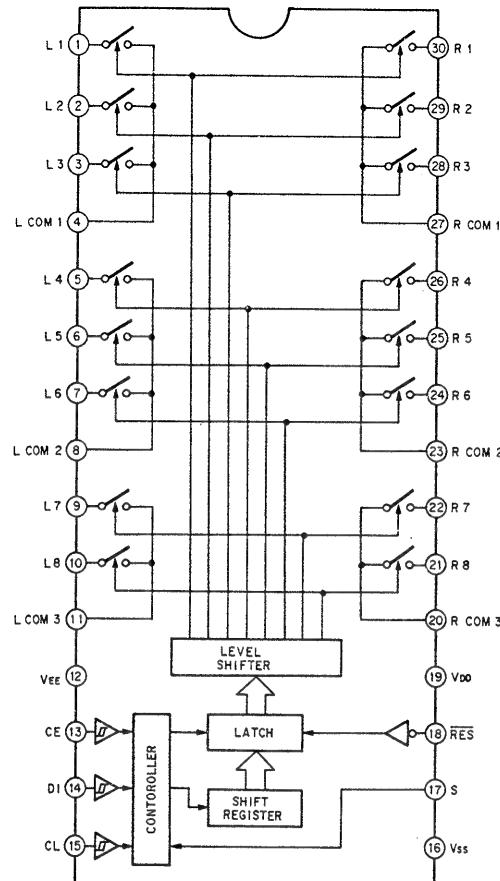


5-11. SEMICONDUCTOR LEAD LAYOUTS

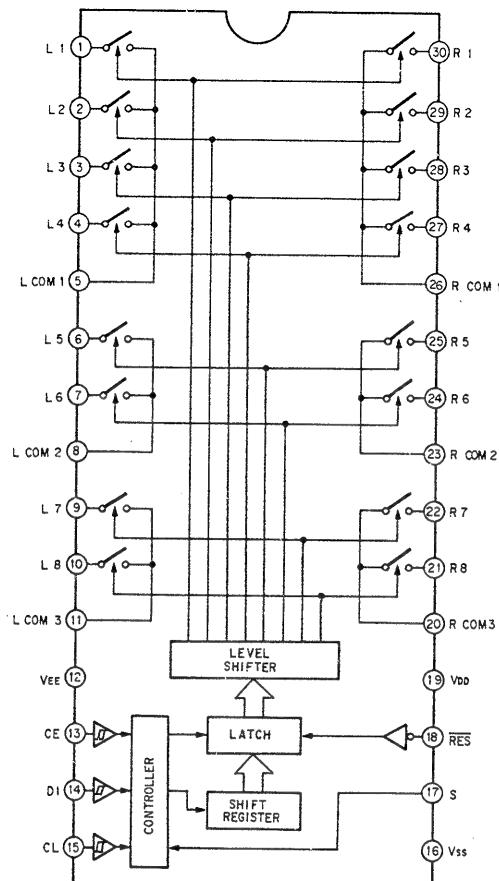


5-12. IC BLOCK DIAGRAMS

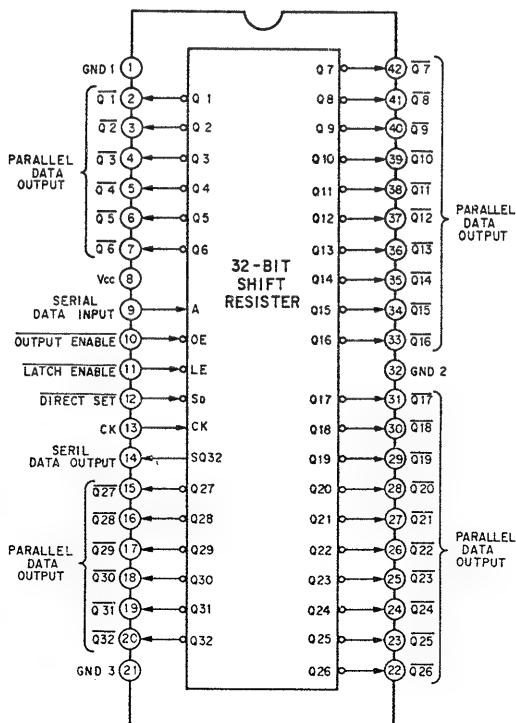
• IC101, 103 LC7822



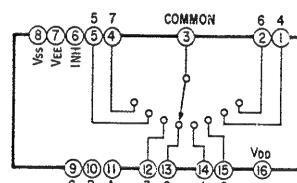
• IC102, 104 LC7821



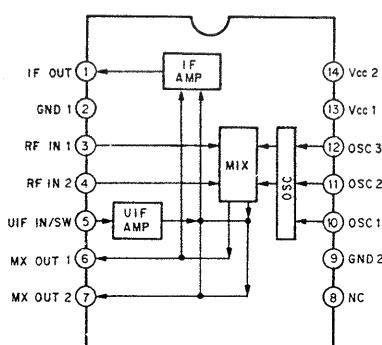
• IC501 M66313FP



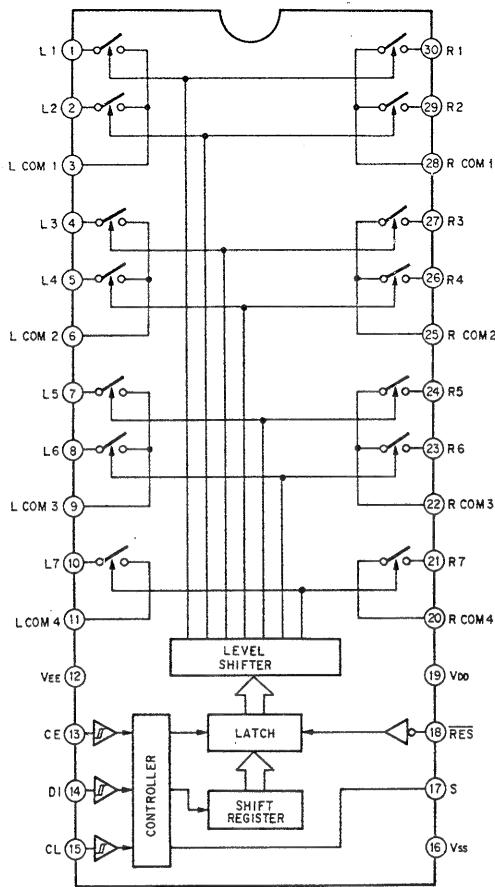
• IC706, 707 TC74HC4051AP



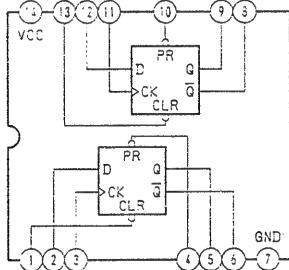
• IC802, 803, 804 CXA1125P



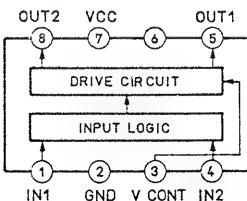
• IC403 LC7823



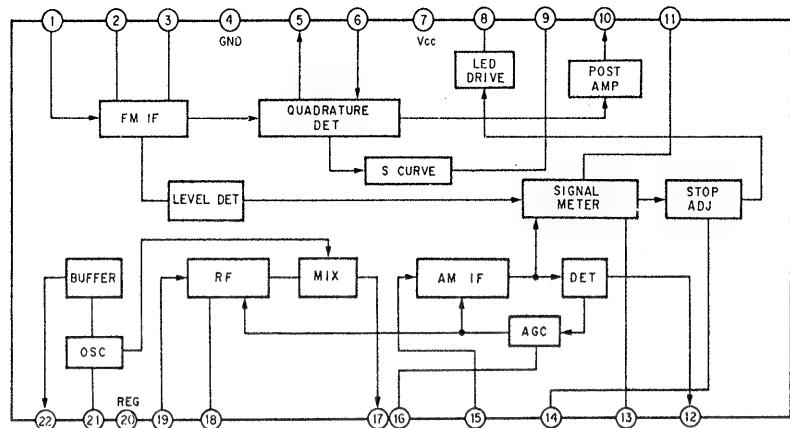
• IC704 SN74HC74AN



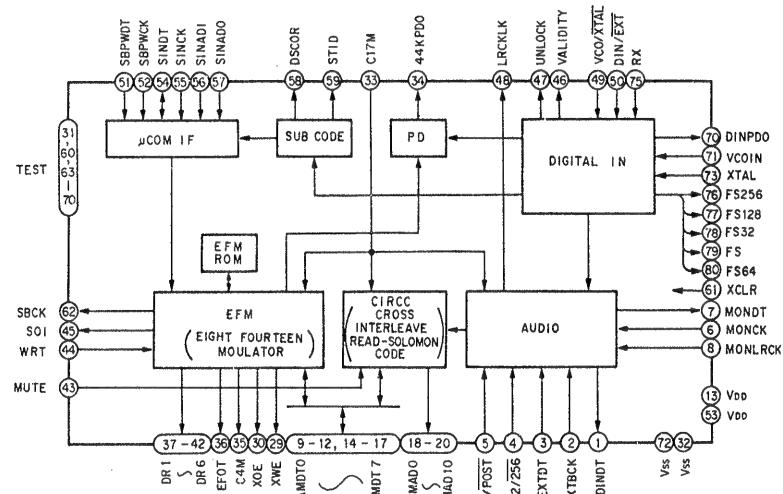
• IC302 LB1639



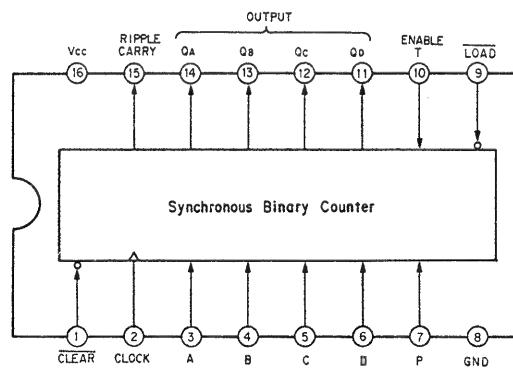
- IC806 LA1265



- IC604, 611, 618 CXD2520Q



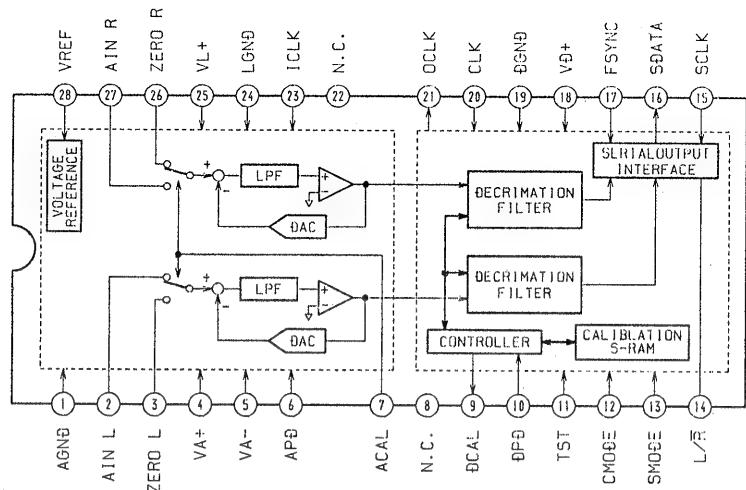
• IC752 SN74HC161AN



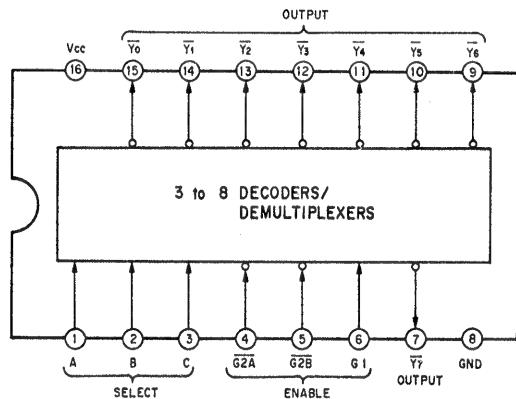
INPUT				OUTPUT				OPERATION
CLEAR	LOAD	CLOCK	ENABLE	QA	QB	QC	QD	
			P	T	RIPPLE CARRY			
H	H		H	H				COUNT
H	L		X	X	DA	DB	DC	DATA SET
	X	X	X	X	L	L	L	CLEAR
H	X	X	X	H	H	H	H	

$X = H$ or L

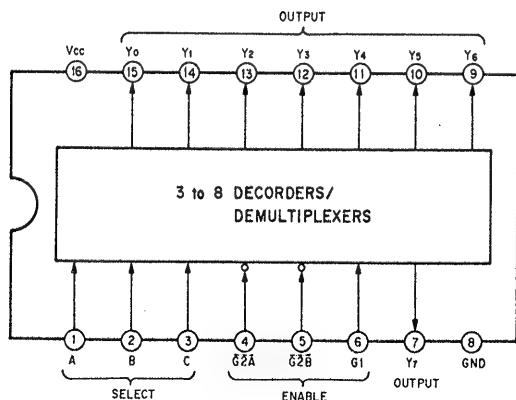
• IC609, 616 CS5339-KP



• IC703 SN74HC138AN



• IC708 SN74HC238N



SECTION 6

EXPLODED VIEWS

NOTE:

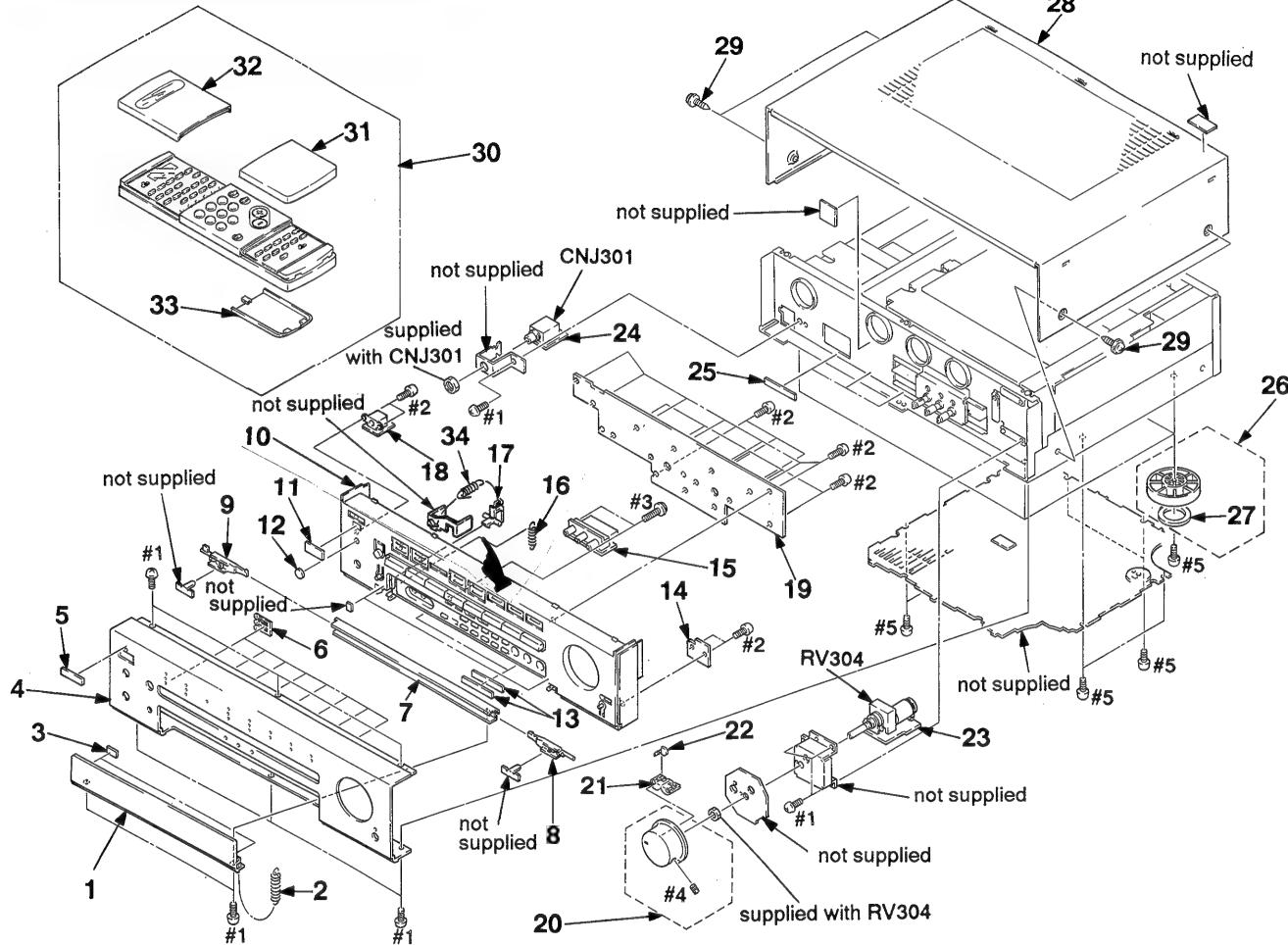
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Hardware (#mark) list is given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

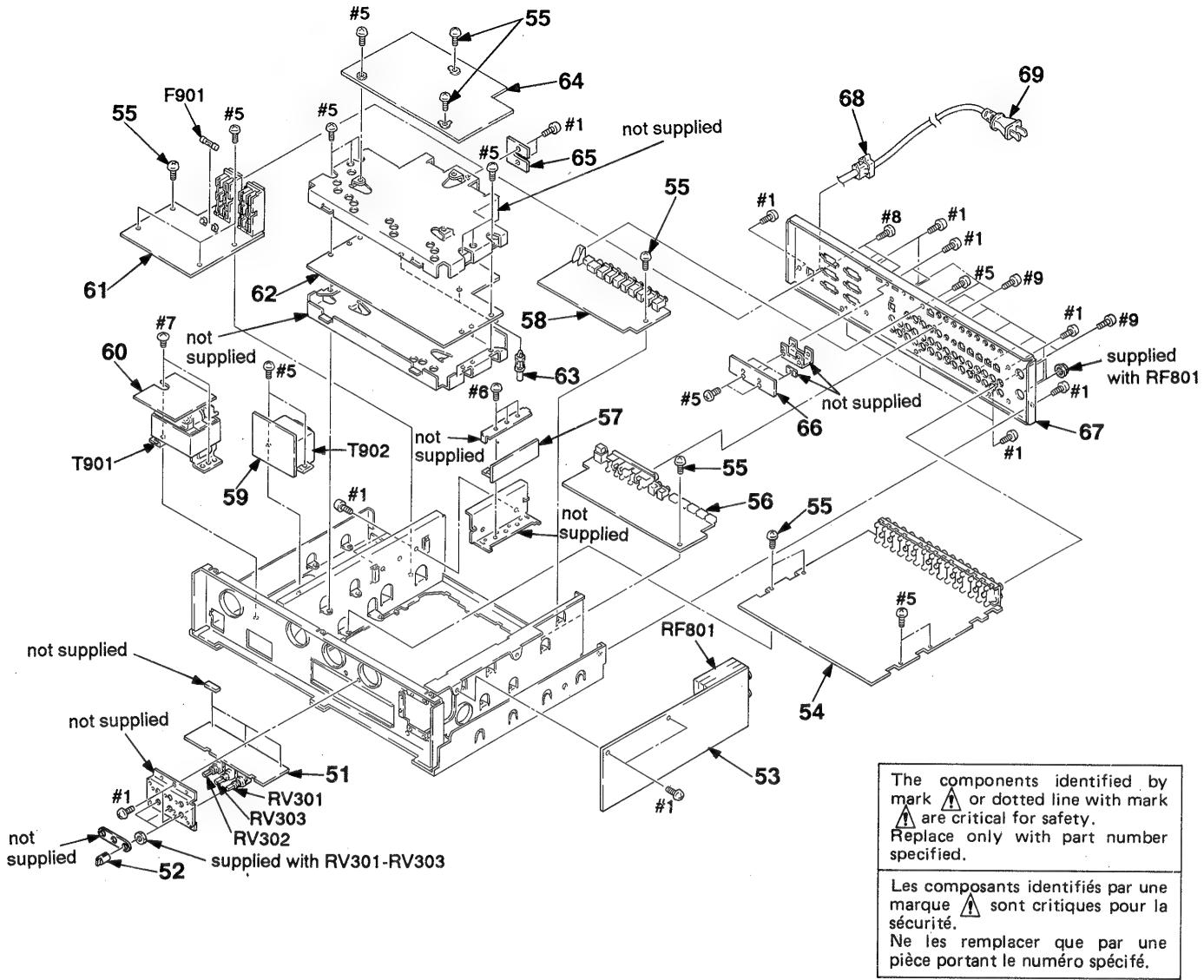
6-1. CABINET BLOCK ASSEMBLY



Ref. No.	Part No.	Description	Remark
1	4-943-380-01	LID	
2	4-864-520-00	SPRING, TENSION	
3	3-327-119-01	SPACER, OPEN KNOB	
4	4-943-361-01	PANEL, FRONT	
5	4-908-848-01	EMBLEM, SONY	
6	4-943-376-01	WINDOW (A)	
7	4-943-408-01	COVER	
8	4-943-375-11	SHAFT	
9	4-943-375-01	SHAFT	
10	X-4941-378-1	PANEL ASSY	
11	4-943-378-01	WINDOW (RAY CATCHER A)	
12	4-943-379-01	WINDOW (RAY CATCHER B)	
13	9-911-838-XX	SHEET, RUBBER	
14	* 1-638-080-11	MUTING BOARD	
15	* 1-638-082-11	VIDEO (F) BOARD	
16	3-672-461-00	SPRING, TENSION	
17	4-943-377-03	CATCHER	
18	* 1-638-084-11	RECEIVE BOARD	

Ref. No.	Part No.	Description	Remark
19	* A-4341-456-A	PANEL BOARD, COMPLETE	
20	X-4941-377-1	KNOB (DIA. 52) ASSY	
21	* 4-901-919-00	HOUSE, LED LAMP	
22	* 1-638-085-11	VOL LED BOARD	
23	* 1-638-078-11	MOTOR VOLUME BOARD	
24	* 1-638-083-11	HEADPHONES BOARD	
25	9-911-863-XX	PLATE, BLIND	
26	X-3304-938-2	FOOT ASSY	27
27	4-923-836-11	CUSHION	
28	3-350-407-61	CASE	
29	3-704-366-01	SCREW (CASE) (M3X8)	
30	1-465-655-11	REMOTE COMMANDER (RM-P1)	31-33
31	4-944-034-01	COVER, SLIDE (for RM-P1)	
32	4-944-033-01	COVER, ROTARY (for RM-P1)	
33	4-944-032-01	COVER, BATTERY (for RM-P1)	
CNJ301	1-569-348-11	JACK LARGE TYPE	
RV304	1-241-320-11	RES. VAR, CARBON 120KX2	
34	4-946-086-01	SPRING, TENSION	

6-2. CHASSIS BLOCK ASSEMBLY



Ref. No.	Part No.	Description	Remar
51	* 1-638-079-11	TONE BOARD	
52	4-921-921-01	KNOB (M)	
53	* A-4341-451-A	RF BOARD, COMPLETE	
54	* A-4341-448-A	ANALOG BOARD, COMPLETE	
55	3-703-685-21	SCREW (+BV 3X8)	
56	* A-4341-465-A	VIDEO BOARD, COMPLETE	
57	* 1-638-081-11	POWER 2 BOARD	
58	* A-4341-449-A	SIRCS BOARD, COMPLETE	
59	* 1-638-070-11	TRANSFORMER (S) BOARD	
60	* 1-638-074-11	TRANSFORMER (M) BOARD	
61	* A-4341-454-A	POWER SUPPLY (1) BOARD, COMPLETE	
62	* A-4341-464-A	DIGITAL BOARD, COMPLETE	
63	* 3-676-567-00	SPACER	

Ref. No.	Part No.	Description	Remark
64	* A-4341-452-A	CONTROL BOARD, COMPLETE	
65	* 4-923-873-01	BRACKET, CORD STOPPER	
66	* 1-638-076-11	SELECT BOARD	
67	* 4-943-362-01	PANEL, BACK	
68	4-916-783-01	BUSHING, CORD	
69	△ 1-559-479-11	CORD, POWER	
F901	△ 1-532-739-11	FUSE, GLASS TUBE	
RF801	1-466-468-11	RF MODULATOR	
RV301	1-237-886-11	RES, VAR, CARBON 100K/100K	
RV302	1-241-309-11	RES, VAR, CARBON 100K/100K	
RV303	1-241-309-11	RES, VAR, CARBON 100K/100K	
T901	△ 1-450-279-11	TRANSFORMER, POWER	
T902	△ 1-450-281-11	TRANSFORMER, POWER	

7. ELECTRICAL PARTS LIST

ANALOG

SIRCS

TRANSFORMER (S)

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

- -XX, -X mean standardized parts, so they may have some difference from the original one.

• RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, μ : μ , for example:
 μA ...: μA ..., μPA ...: μPA ..., μPB ...: μPB ...,
 μPC ...: μPC ..., μPD ...: μPD ...

• CAPACITORS

 μF : μF

• COILS

 μH : μH

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
	* A-4341-448-A	ANALOG BOARD, COMPLETE			C121	1-164-159-11	CERAMIC	0.1uF	50V
		*****	*****		C122	1-164-159-11	CERAMIC	0.1uF	50V
	* A-4341-449-A	SIRCS BOARD, COMPLETE			C123	1-123-369-00	ELECT	4.7uF	20% 50V
		*****	*****		C124	1-123-369-00	ELECT	4.7uF	20% 50V
	* 1-638-070-11	TRANSFORMER (S) BOARD			C125	1-123-332-00	ELECT	47uF	20% 25V
		*****	*****		C126	1-123-321-00	ELECT	220uF	20% 16V
	* 1-535-303-00	WIRE, JUMPER			C127	1-164-062-11	CERAMIC	47PF	5% 50V
	* 3-346-266-12	PLATE, GROUND			C128	1-164-062-11	CERAMIC	47PF	5% 50V
	4-870-539-00	PLATE, GROUND			C129	1-123-357-00	ELECT	22uF	20% 50V
	* 4-928-467-01	PLATE (12P), SHIELD			C130	1-123-357-00	ELECT	22uF	20% 50V
< CAPACITOR >					C131	1-123-379-00	ELECT	0.47uF	20% 50V
C101	1-164-096-11	CERAMIC	0.01uF	50V	C132	1-123-379-00	ELECT	0.47uF	20% 50V
C102	1-164-096-11	CERAMIC	0.01uF	50V	C133	1-124-122-11	ELECT	100uF	20% 50V
C103	1-161-379-00	CERAMIC	0.01uF	20% 25V	C322	1-164-062-11	CERAMIC	47PF	5% 50V
C104	1-164-096-11	CERAMIC	0.01uF	50V	C323	1-164-062-11	CERAMIC	47PF	5% 50V
C105	1-164-096-11	CERAMIC	0.01uF	50V	C324	1-123-357-00	ELECT	22uF	20% 50V
C106	1-164-096-11	CERAMIC	0.01uF	50V	C325	1-123-357-00	ELECT	22uF	20% 50V
C107	1-164-096-11	CERAMIC	0.01uF	50V	C326	1-123-379-00	ELECT	0.47uF	20% 50V
C108	1-164-096-11	CERAMIC	0.01uF	50V	C327	1-123-379-00	ELECT	0.47uF	20% 50V
C109	1-164-096-11	CERAMIC	0.01uF	50V	C328	1-126-059-11	ELECT	10uF	20% 50V
C110	1-164-096-11	CERAMIC	0.01uF	50V	C329	1-126-059-11	ELECT	10uF	20% 50V
C111	1-164-096-11	CERAMIC	0.01uF	50V	C330	1-123-369-00	ELECT	4.7uF	20% 50V
C112	1-164-096-11	CERAMIC	0.01uF	50V	C331	1-123-369-00	ELECT	4.7uF	20% 50V
C113	1-123-332-00	ELECT	47uF	20% 25V	C395	1-164-159-11	CERAMIC	0.1uF	50V
C114	1-123-332-00	ELECT	47uF	20% 25V	C396	1-164-159-11	CERAMIC	0.1uF	50V
C115	1-126-059-11	ELECT	10uF	20% 50V	C397	1-130-471-00	FILM	0.001uF	5% 50V
C116	1-126-059-11	ELECT	10uF	20% 50V	C398	1-130-471-00	FILM	0.001uF	5% 50V
C117	1-123-369-00	ELECT	4.7uF	20% 50V	C750	1-126-301-11	ELECT	1uF	20% 50V
C118	1-123-369-00	ELECT	4.7uF	20% 50V	C751	1-102-973-00	CERAMIC	100PF	5% 50V
C119	1-126-059-11	ELECT	10uF	20% 50V	C752	1-102-973-00	CERAMIC	100PF	5% 50V
C120	1-126-059-11	ELECT	10uF	20% 50V	C753	1-164-159-11	CERAMIC	0.1uF	50V
					C754	1-164-159-11	CERAMIC	0.1uF	50V
					C755	1-164-159-11	CERAMIC	0.1uF	50V
					C756	1-164-159-11	CERAMIC	0.1uF	50V

ANALOG SIRCS TRANSFORMER (S)

Note:
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

ANALOG

SIRCS

TRANSFORMER (S)

Ref. No.	Part No.	Description		Remark		Ref. No.	Part No.	Description		Remark	
< JACK >											
J101	1-565-320-21	JACK, PIN 6P (CD 1/CD 2/TUNER IN)				R119	1-249-417-11	CARBON	1K	5%	1/4W
J102	1-565-320-11	JACK, PIN 6P (TAPE 1 OUT, TAPE 2/DAT IN/OUT)				R120	1-249-417-11	CARBON	1K	5%	1/4W
J103	1-565-320-11	JACK, PIN 6P (TAPE 1, TV/AUX IN, VIDEO 2 AUDIO OUT)				R121	1-249-413-11	CARBON	470	5%	1/4W
J104	1-565-320-11	JACK, PIN 6P (VIDEO 2 AUDIO IN, VIDEO 1 AUDIO IN/OUT)				R122	1-249-413-11	CARBON	470	5%	1/4W
J105	1-565-320-11	JACK, PIN 6P (ADAPTOR IN/OUT, PRE OUT)				R123	1-249-413-11	CARBON	470	5%	1/4W
< TRANSISTOR >											
Q101	8-729-900-63	TRANSISTOR DTA124ES				R124	1-249-413-11	CARBON	470	5%	1/4W
Q102	8-729-141-30	TRANSISTOR 2SC3623A-LK				R125	1-249-413-11	CARBON	470	5%	1/4W
Q103	8-729-141-30	TRANSISTOR 2SC3623A-LK				R126	1-249-413-11	CARBON	470	5%	1/4W
Q306	8-729-141-30	TRANSISTOR 2SC3623A-LK				R127	1-249-413-11	CARBON	470	5%	1/4W
Q307	8-729-141-30	TRANSISTOR 2SC3623A-LK				R128	1-249-413-11	CARBON	470	5%	1/4W
Q750	8-729-620-05	TRANSISTOR 2SC2603-EF				R129	1-249-437-11	CARBON	47K	5%	1/4W
Q751	8-729-900-61	TRANSISTOR DTA114ES				R130	1-249-437-11	CARBON	47K	5%	1/4W
Q752	8-729-620-05	TRANSISTOR 2SC2603-EF				R131	1-249-437-11	CARBON	47K	5%	1/4W
Q753	8-729-620-05	TRANSISTOR 2SC2603-EF				R132	1-249-437-11	CARBON	47K	5%	1/4W
Q754	8-729-900-63	TRANSISTOR DTA124ES				R133	1-249-437-11	CARBON	47K	5%	1/4W
Q755	8-729-900-36	TRANSISTOR DTC124ES				R134	1-249-437-11	CARBON	47K	5%	1/4W
Q756	8-729-620-05	TRANSISTOR 2SC2603-EF				R135	1-249-437-11	CARBON	47K	5%	1/4W
Q757	8-729-620-05	TRANSISTOR 2SC2603-EF				R136	1-249-437-11	CARBON	47K	5%	1/4W
Q758	8-729-620-05	TRANSISTOR 2SC2603-EF				R137	1-249-437-11	CARBON	47K	5%	1/4W
Q759	8-729-620-05	TRANSISTOR 2SC2603-EF				R138	1-249-437-11	CARBON	47K	5%	1/4W
Q760	8-729-620-05	TRANSISTOR 2SC2603-EF				R139	1-249-437-11	CARBON	47K	5%	1/4W
Q761	8-729-620-05	TRANSISTOR 2SC2603-EF				R140	1-249-437-11	CARBON	47K	5%	1/4W
Q762	8-729-620-05	TRANSISTOR 2SC2603-EF				R141	1-249-437-11	CARBON	47K	5%	1/4W
< RESISTOR >											
R101	1-249-417-11	CARBON	1K	5%	1/4W	R150	1-249-437-11	CARBON	47K	5%	1/4W
R102	1-249-417-11	CARBON	1K	5%	1/4W	R151	1-249-437-11	CARBON	47K	5%	1/4W
R103	1-249-433-11	CARBON	22K	5%	1/4W	R152	1-249-437-11	CARBON	47K	5%	1/4W
R104	1-249-433-11	CARBON	22K	5%	1/4W	R153	1-249-437-11	CARBON	47K	5%	1/4W
R105	1-249-433-11	CARBON	22K	5%	1/4W	R154	1-249-437-11	CARBON	47K	5%	1/4W
R106	1-249-433-11	CARBON	22K	5%	1/4W	R155	1-249-437-11	CARBON	47K	5%	1/4W
R107	1-249-417-11	CARBON	1K	5%	1/4W	R156	1-249-437-11	CARBON	47K	5%	1/4W
R108	1-249-417-11	CARBON	1K	5%	1/4W	R157	1-249-437-11	CARBON	47K	5%	1/4W
R109	1-249-417-11	CARBON	1K	5%	1/4W	R158	1-249-437-11	CARBON	47K	5%	1/4W
R110	1-249-417-11	CARBON	1K	5%	1/4W	R159	1-249-437-11	CARBON	47K	5%	1/4W
R111	1-249-417-11	CARBON	1K	5%	1/4W	R160	1-249-437-11	CARBON	47K	5%	1/4W
R112	1-249-417-11	CARBON	1K	5%	1/4W	R161	1-249-437-11	CARBON	47K	5%	1/4W
R113	1-249-417-11	CARBON	1K	5%	1/4W	R162	1-249-437-11	CARBON	47K	5%	1/4W
R114	1-249-417-11	CARBON	1K	5%	1/4W	R163	1-249-437-11	CARBON	47K	5%	1/4W
R115	1-249-417-11	CARBON	1K	5%	1/4W	R164	1-249-437-11	CARBON	47K	5%	1/4W
R116	1-249-417-11	CARBON	1K	5%	1/4W	R165	1-249-429-11	CARBON	10K	5%	1/4W
R117	1-249-413-11	CARBON	470	5%	1/4W	R168	1-249-437-11	CARBON	47K	5%	1/4W
R118	1-249-413-11	CARBON	470	5%	1/4W						

When indicating parts by reference number, please include the board name.

ANALOG SIRCS TRANSFORMER (S)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
R169	1-249-437-11	CARBON	47K 5% 1/4W	R222	1-249-441-11	CARBON	100K 5% 1/4W	
R170	1-249-437-11	CARBON	47K 5% 1/4W	R317	1-249-441-11	CARBON	100K 5% 1/4W	
R171	1-249-437-11	CARBON	47K 5% 1/4W	R318	1-249-441-11	CARBON	100K 5% 1/4W	
R172	1-249-437-11	CARBON	47K 5% 1/4W	R319	1-249-441-11	CARBON	100K 5% 1/4W	
R175	1-249-417-11	CARBON	1K 5% 1/4W	R320	1-249-441-11	CARBON	100K 5% 1/4W	
R176	1-249-437-11	CARBON	47K 5% 1/4W	R321	1-249-441-11	CARBON	100K 5% 1/4W	
R179	1-249-417-11	CARBON	1K 5% 1/4W	R322	1-249-441-11	CARBON	100K 5% 1/4W	
R180	1-249-437-11	CARBON	47K 5% 1/4W	R323	1-249-402-11	CARBON	56 5% 1/4W	
R181	1-249-437-11	CARBON	47K 5% 1/4W	R324	1-249-402-11	CARBON	56 5% 1/4W	
R182	1-249-437-11	CARBON	47K 5% 1/4W	R325	1-249-421-11	CARBON	2.2K 5% 1/4W	
R183	1-249-437-11	CARBON	47K 5% 1/4W	R326	1-249-421-11	CARBON	2.2K 5% 1/4W	
R184	1-249-437-11	CARBON	47K 5% 1/4W	R398	1-249-441-11	CARBON	100K 5% 1/4W	
R185	1-249-426-11	CARBON	5.6K 5% 1/4W	R399	1-249-441-11	CARBON	100K 5% 1/4W	
R186	1-249-437-11	CARBON	47K 5% 1/4W	R750	1-249-421-11	CARBON	2.2K 5% 1/4W	
R187	1-249-425-11	CARBON	4.7K 5% 1/4W	R751	1-249-429-11	CARBON	10K 5% 1/4W	
R188	1-249-437-11	CARBON	47K 5% 1/4W	R752	1-249-393-11	CARBON	10 5% 1/4W	
R189	1-249-426-11	CARBON	5.6K 5% 1/4W	R753	1-249-405-11	CARBON	100 5% 1/4W	
R190	1-249-437-11	CARBON	47K 5% 1/4W	R754	1-247-736-11	CARBON	56 5% 1/2W	
R191	1-249-425-11	CARBON	4.7K 5% 1/4W	R757	1-249-421-11	CARBON	2.2K 5% 1/4W	
R192	1-249-425-11	CARBON	4.7K 5% 1/4W	R758	1-249-429-11	CARBON	10K 5% 1/4W	
R193	1-249-425-11	CARBON	4.7K 5% 1/4W	R759	1-249-429-11	CARBON	10K 5% 1/4W	
R194	1-249-441-11	CARBON	100K 5% 1/4W	R760	1-249-429-11	CARBON	10K 5% 1/4W	
R195	1-247-887-00	CARBON	220K 5% 1/4W	R761	1-249-426-11	CARBON	5.6K 5% 1/4W	
R196	1-247-887-00	CARBON	220K 5% 1/4W	R762	1-249-398-11	CARBON	27 5% 1/4W	
R197	1-247-887-00	CARBON	220K 5% 1/4W	R763	1-249-426-11	CARBON	5.6K 5% 1/4W	
R198	1-247-887-00	CARBON	220K 5% 1/4W	R764	1-249-398-11	CARBON	27 5% 1/4W	
R199	1-247-887-00	CARBON	220K 5% 1/4W	R765	1-249-426-11	CARBON	5.6K 5% 1/4W	
R200	1-247-887-00	CARBON	220K 5% 1/4W	R766	1-249-398-11	CARBON	27 5% 1/4W	
R201	1-247-887-00	CARBON	220K 5% 1/4W	R767	1-249-426-11	CARBON	5.6K 5% 1/4W	
R202	1-247-887-00	CARBON	220K 5% 1/4W	R768	1-249-398-11	CARBON	27 5% 1/4W	
R203	1-247-887-00	CARBON	220K 5% 1/4W	R769	1-249-426-11	CARBON	5.6K 5% 1/4W	
R204	1-247-887-00	CARBON	220K 5% 1/4W	R770	1-249-398-11	CARBON	27 5% 1/4W	
R205	1-247-887-00	CARBON	220K 5% 1/4W	R771	1-249-426-11	CARBON	5.6K 5% 1/4W	
R206	1-247-887-00	CARBON	220K 5% 1/4W	R772	1-249-398-11	CARBON	27 5% 1/4W	
R207	1-247-887-00	CARBON	220K 5% 1/4W	R773	1-249-426-11	CARBON	5.6K 5% 1/4W	
R208	1-247-887-00	CARBON	220K 5% 1/4W	R774	1-249-398-11	CARBON	27 5% 1/4W	
R209	1-247-887-00	CARBON	220K 5% 1/4W	R775	1-247-903-00	CARBON	1M 5% 1/4W	
R210	1-247-887-00	CARBON	220K 5% 1/4W	R776	1-249-429-11	CARBON	10K 5% 1/4W	
R211	1-249-441-11	CARBON	100K 5% 1/4W	R778	1-249-429-11	CARBON	10K 5% 1/4W	
R212	1-249-441-11	CARBON	100K 5% 1/4W	R779	1-249-429-11	CARBON	10K 5% 1/4W	
R213	1-247-887-00	CARBON	220K 5% 1/4W	< VARIABLE RESISTOR >				
R214	1-247-887-00	CARBON	220K 5% 1/4W					
R215	1-249-441-11	CARBON	100K 5% 1/4W	RV750	1-238-013-11	RES, ADJ, CARBON	2.2K	
R216	1-249-441-11	CARBON	100K 5% 1/4W	RV751	1-238-013-11	RES, ADJ, CARBON	2.2K	
R217	1-249-441-11	CARBON	100K 5% 1/4W	RV752	1-238-013-11	RES, ADJ, CARBON	2.2K	
R218	1-249-441-11	CARBON	100K 5% 1/4W	RV753	1-238-013-11	RES, ADJ, CARBON	2.2K	
R219	1-249-441-11	CARBON	100K 5% 1/4W	RV754	1-238-013-11	RES, ADJ, CARBON	2.2K	
R220	1-249-441-11	CARBON	100K 5% 1/4W	RV755	1-238-013-11	RES, ADJ, CARBON	2.2K	
R221	1-249-441-11	CARBON	100K 5% 1/4W	RV756	1-238-013-11	RES, ADJ, CARBON	2.2K	

When indicating parts by reference number, please include the board name.

ANALOG SIRCS TRANSFORMER (S)

CONTROL RF TRANSFORMER (M)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
< TRANSFORMER >									
T902	▲ 1-450-281-11	TRANSFORMER, POWER		C724	1-164-159-11 CERAMIC	0.1uF	50V		
< VIBRATOR >									
X704	1-579-176-11	VIBRATOR, CERAMIC (640KHz)		C725	1-164-159-11 CERAMIC	0.1uF	50V		

* A-4341-452-A CONTROL BOARD, COMPLETE									

* A-4341-451-A RF BOARD, COMPLETE									

* 1-638-074-11 TRANSFORMER (M) BOARD									

1-239-017-11 ENCAPSULATED COMPONENT (HPF)									
1-239-018-11 ENCAPSULATED COMPONENT (LPF)									
1-417-200-11 SEPARATOR									
* 3-346-266-12 PLATE, GROUND									
4-870-539-00 PLATE, GROUND									
< SEPARATOR >									
BL801	1-417-200-11	SEPARATOR		C801	1-126-157-11 ELECT	10uF	20% 16V		
< FILTER >									
BPF801	1-236-992-11	ENCAPSULATED COMPONENT (BPF)		C802	1-161-494-00 CERAMIC	0.022uF	25V		
BPF802	1-236-992-11	ENCAPSULATED COMPONENT (BPF)		C803	1-130-471-00 MYLAR	0.001uF	5% 50V		
BPF803	1-424-476-11	COIL (FILTER)		C804	1-130-471-00 MYLAR	0.001uF	5% 50V		
BPF804	1-466-004-11	FILTER UNIT, LOW PASS		C805	1-136-165-00 FILM	0.1uF	5% 50V		
< CAPACITOR >									
C703	1-125-486-11	DUBLE LAYERS	0.22F	C823	1-162-294-31 CERAMIC	0.001uF	10% 50V		
C704	1-126-177-11	ELECT	100uF	20%	10V	C824	1-164-027-11 CERAMIC	22PF	5% 50V
C705	1-164-159-11	CERAMIC	0.1uF	C825	1-162-283-11 CERAMIC	120PF	5% 50V		
C706	1-102-963-00	CERAMIC	33PF	5%	50V	C826	1-162-283-11 CERAMIC	120PF	5% 50V
C707	1-102-963-00	CERAMIC	33PF	5%	50V	C827	1-161-494-00 CERAMIC	0.022uF	25V
C709	1-164-159-11	CERAMIC	0.1uF	C828	1-126-157-11 ELECT	10uF	20% 16V		
C711	1-164-159-11	CERAMIC	0.1uF	C829	1-130-471-00 MYLAR	0.001uF	5% 50V		
C712	1-126-177-11	ELECT	100uF	20%	10V	C830	1-130-471-00 MYLAR	0.001uF	5% 50V
C713	1-164-159-11	CERAMIC	0.1uF	C831	1-136-165-00 FILM	0.1uF	5% 50V		
C714	1-102-961-00	CERAMIC	27PF	5%	50V	C832	1-136-165-00 FILM	0.1uF	5% 50V
C715	1-102-961-00	CERAMIC	27PF	5%	50V	C833	1-162-286-31 CERAMIC	220PF	10% 50V
C716	1-125-486-11	DUBLE LAYERS	0.22F	C834	1-162-286-31 CERAMIC	220PF	10% 50V		
C717	1-126-177-11	ELECT	100uF	20%	10V	C836	1-162-294-31 CERAMIC	0.001uF	10% 50V
C718	1-164-159-11	CERAMIC	0.1uF	C837	1-164-027-11 CERAMIC	22PF	5% 50V		
C719	1-126-154-11	ELECT	47uF	20%	6.3V	C838	1-162-282-11 CERAMIC	100PF	5% 50V
C720	1-164-159-11	CERAMIC	0.1uF	C839	1-162-283-11 CERAMIC	120PF	5% 50V		
C721	1-102-963-00	CERAMIC	33PF	5%	50V	C840	1-161-494-00 CERAMIC	0.022uF	25V
C722	1-102-963-00	CERAMIC	33PF	5%	50V	C841	1-126-157-11 ELECT	10uF	20% 16V
C723	1-126-163-11	ELECT	4.7uF	20%	50V	C842	1-126-157-11 ELECT	10uF	20% 16V

Note:

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

CONTROL RF TRANSFORMER (M)

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C843	1-162-294-31	CERAMIC	0.001uF	10%	50V			< DIODE >			
C844	1-161-494-00	CERAMIC	0.022uF		25V		D708	8-719-912-20	DIODE 1SS120		
C845	1-161-494-00	CERAMIC	0.022uF		25V		D709	8-719-912-20	DIODE 1SS120		
C846	1-161-494-00	CERAMIC	0.022uF		25V		D710	8-719-912-20	DIODE 1SS120		
C847	1-161-375-00	CERAMIC	0.0022uF	20%	50V			< IC >			
C848	1-162-294-31	CERAMIC	0.001uF	10%	50V		IC701	8-759-152-23	IC uPD78224GJ-559-58G		
C849	1-162-286-31	CERAMIC	220PF	10%	50V		IC702	8-759-510-05	IC CXD2902S		
C850	1-162-294-31	CERAMIC	0.001uF	10%	50V		IC703	8-759-917-43	IC SN74HC138N		
C851	1-162-294-31	CERAMIC	0.001uF	10%	50V		IC704	8-759-916-29	IC SN74HC74N		
C852	1-126-157-11	ELECT	10uF	20%	16V		IC705	8-759-152-96	IC uPD17203GC-530-38H		
C853	1-162-294-31	CERAMIC	0.001uF	10%	50V		IC706	8-759-007-19	IC MC74HC4051N		
C854	1-126-157-11	ELECT	10uF	20%	16V		IC707	8-759-007-19	IC MC74HC4051N		
C855	1-162-215-31	CERAMIC	47PF	5%	50V		IC708	8-759-916-64	IC SN74HC238N		
C856	1-164-159-11	CERAMIC	0.1uF		50V		IC709	8-759-803-70	IC LC74HC08		
C857	1-164-159-11	CERAMIC	0.1uF		50V		IC710	8-759-803-70	IC LC74HC08		
C858	1-162-286-31	CERAMIC	220PF	10%	50V		IC801	8-759-916-14	IC SN74HC04N		
C859	1-164-097-11	CERAMIC	0.022uF		50V		IC802	8-752-031-84	IC CXA1125P		
< CONNECTOR >											
CNP701	* 1-564-506-11	PLUG, CONNECTOR 3P					IC803	8-752-031-84	IC CXA1125P		
CNP702	* 1-564-338-71	PIN, CONNECTOR 4P					IC804	8-752-031-84	IC CXA1125P		
CNP703	* 1-564-337-71	PIN, CONNECTOR 3P					IC805	8-759-916-12	IC SN74HC00N		
CNP704	* 1-564-342-61	PIN, CONNECTOR 8P					IC806	8-759-801-81	IC LA1265		
CNP705	* 1-564-337-81	PIN, CONNECTOR 3P					IC807	8-759-107-67	IC uPC1651G		
CNP706	* 1-564-508-11	PLUG, CONNECTOR 5P					< COIL >				
CNP707	* 1-564-338-00	PIN, CONNECTOR 4P					L702	1-410-324-11	INDUCTOR	4.7uH	
CNP708	* 1-564-338-61	PIN, CONNECTOR 4P					L703	1-410-324-11	INDUCTOR	4.7uH	
CNP709	* 1-564-342-11	PIN, CONNECTOR 8P					L704	1-410-324-11	INDUCTOR	4.7uH	
CNP710	* 1-564-340-00	PIN, CONNECTOR 6P					L705	1-410-324-11	INDUCTOR	4.7uH	
CNP711	* 1-564-337-61	PIN, CONNECTOR 3P					L706	1-410-324-11	INDUCTOR	4.7uH	
CNP712	* 1-564-341-11	PIN, CONNECTOR 7P					L707	1-410-324-11	INDUCTOR	4.7uH	
CNP713	* 1-564-341-11	PIN, CONNECTOR 7P					L801	1-410-324-11	INDUCTOR	4.7uH	
CNP714	* 1-564-338-61	PIN, CONNECTOR 4P					L802	1-410-517-11	INDUCTOR	47uH	
CNP715	* 1-564-340-61	PIN, CONNECTOR 6P					L803	1-408-561-21	INDUCTOR	6.8uH	
CNP716	* 1-564-506-11	PLUG, CONNECTOR 3P					L804	1-410-316-11	INDUCTOR	1uH	
CNP717	* 1-564-339-61	PIN, CONNECTOR 5P					L805	1-410-324-11	INDUCTOR	4.7uH	
CNP718	* 1-564-337-00	PIN, CONNECTOR 3P					L806	1-410-517-11	INDUCTOR	47uH	
CNP719	* 1-564-339-71	PIN, CONNECTOR 5P					L807	1-408-561-21	INDUCTOR	6.8uH	
CNP720	* 1-564-337-71	PIN, CONNECTOR 3P					L808	1-410-316-11	INDUCTOR	1uH	
CNP721	* 1-564-337-00	PIN, CONNECTOR 3P					L809	1-410-324-11	INDUCTOR	4.7uH	
CNP722	* 1-564-505-11	PLUG, CONNECTOR 2P					L810	1-410-517-11	INDUCTOR	47uH	
CNP801	* 1-564-509-11	PLUG, CONNECTOR 6P					L811	1-408-561-21	INDUCTOR	6.8uH	
CNP802	* 1-564-505-11	PLUG, CONNECTOR 2P					L812	1-410-316-11	INDUCTOR	1uH	
CNP805	* 1-564-506-11	PLUG, CONNECTOR 3P					L813	1-410-324-11	INDUCTOR	4.7uH	
CNP806	* 1-564-506-21	PLUG, CONNECTOR 3P					L814	1-410-324-11	INDUCTOR	4.7uH	
CNP807	* 1-564-505-11	PLUG, CONNECTOR 2P					L815	1-410-324-11	INDUCTOR	4.7uH	
CNP808	* 1-564-505-11	PLUG, CONNECTOR 2P									
CNP809	* 1-564-505-11	PLUG, CONNECTOR 2P									
CNP903	* 1-564-321-00	PIN, CONNECTOR 2P									

When indicating parts by reference number, please include the board name.

SEE ADDITIONAL INFORMATION

CONTROL RF TRANSFORMER (M) DIGITAL VIDEO

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
< RESISTOR >											
R722	1-249-405-11	CARBON	100	5%	1/4W	RF801	1-466-468-11	RF MODULATOR (TO DST MIXER/RF OUT (TV))			
R723	1-249-437-11	CARBON	47K	5%	1/4W	RF802	1-236-996-11	ENCAPSULATED COMPONENT			
R724	1-249-417-11	CARBON	1K	5%	1/4W	< VARIABLE RESISTOR >					
R725	1-249-437-11	CARBON	47K	5%	1/4W	RV801	1-238-017-11	RES. ADJ. CARBON 22K			
R726	1-247-903-00	CARBON	1M	5%	1/4W	< TRANSFORMER >					
R727	1-249-405-11	CARBON	100	5%	1/4W	T801	1-404-947-11	TRANSFORMER, DISCRIMINATOR			
R728	1-247-903-00	CARBON	1M	5%	1/4W	< VIBRATOR >					
R729	1-249-425-11	CARBON	4.7K	5%	1/4W	X701	1-567-797-11	VIBRATOR, CERAMIC (12MHz)			
R730	1-247-878-00	CARBON	91K	5%	1/4W	X702	1-579-177-11	VIBRATOR, CRYSTAL (10.48576MHz)			
R731	1-249-440-11	CARBON	82K	5%	1/4W	X703	1-567-738-11	VIBRATOR, CERAMIC (4.0MHz)			
R732	1-247-890-11	CARBON	300K	5%	1/4W	X801	1-579-256-11	VIBRATOR, CRYSTAL (32MHz)			
R733	1-249-428-11	CARBON	8.2K	5%	1/4W	X802	1-527-948-00	VIBRATOR, CRYSTAL (35MHz)			
R734	1-249-425-11	CARBON	4.7K	5%	1/4W	X803	1-579-257-11	VIBRATOR, CRYSTAL (38MHz)			
R735	1-249-435-11	CARBON	33K	5%	1/4W	*****					
R736	1-249-411-11	CARBON	330	5%	1/4W	* A-4341-464-A DIGITAL BOARD, COMPLETE					
R801	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R802	1-249-429-11	CARBON	10K	5%	1/4W	* A-4341-465-A VIDEO BOARD, COMPLETE					
R803	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R804	1-249-421-11	CARBON	2.2K	5%	1/4W	* 3-346-266-12 PLATE, GROUND					
R805	1-247-812-11	CARBON	160	5%	1/4W	* 4-904-446-01 PLATE, GROUND					
R806	1-249-407-11	CARBON	150	5%	1/4W	< CAPACITOR >					
R807	1-247-806-11	CARBON	91	5%	1/4W	C401	1-124-471-00	ELECT	1000uF	20%	6.3V
R808	1-249-399-11	CARBON	33	5%	1/4W	C402	1-124-471-00	ELECT	1000uF	20%	6.3V
R809	1-247-806-11	CARBON	91	5%	1/4W	C403	1-124-471-00	ELECT	1000uF	20%	6.3V
R810	1-249-421-11	CARBON	2.2K	5%	1/4W	C404	1-124-471-00	ELECT	1000uF	20%	6.3V
R811	1-247-812-11	CARBON	160	5%	1/4W	C405	1-123-875-11	ELECT	10uF	20%	50V
R812	1-249-407-11	CARBON	150	5%	1/4W	C406	1-123-875-11	ELECT	10uF	20%	50V
R813	1-247-806-11	CARBON	91	5%	1/4W	C407	1-123-875-11	ELECT	10uF	20%	50V
R814	1-249-399-11	CARBON	33	5%	1/4W	C408	1-123-875-11	ELECT	10uF	20%	50V
R815	1-247-806-11	CARBON	91	5%	1/4W	C409	1-126-101-11	ELECT	100uF	20%	16V
R816	1-249-421-11	CARBON	2.2K	5%	1/4W	C410	1-123-875-11	ELECT	10uF	20%	50V
R817	1-247-812-11	CARBON	160	5%	1/4W	C411	1-164-159-11	CERAMIC	0.1uF		50V
R818	1-249-407-11	CARBON	150	5%	1/4W	C412	1-123-875-11	ELECT	10uF	20%	50V
R819	1-247-806-11	CARBON	91	5%	1/4W	C413	1-164-159-11	CERAMIC	0.1uF		50V
R820	1-249-399-11	CARBON	33	5%	1/4W	C414	1-161-379-00	CERAMIC	0.01uF	20%	25V
R821	1-247-806-11	CARBON	91	5%	1/4W	C415	1-161-379-00	CERAMIC	0.01uF	20%	25V
R822	1-249-429-11	CARBON	10K	5%	1/4W	C416	1-161-379-00	CERAMIC	0.01uF	20%	25V
R823	1-249-421-11	CARBON	2.2K	5%	1/4W	C417	1-123-875-11	ELECT	10uF	20%	50V
R824	1-249-401-11	CARBON	47	5%	1/4W	C418	1-164-159-11	CERAMIC	0.1uF		50V
R825	1-249-421-11	CARBON	2.2K	5%	1/4W	C419	1-164-159-11	CERAMIC	0.1uF		50V
R826	1-249-405-11	CARBON	100	5%	1/4W	C601	1-124-477-11	ELECT	47uF	20%	25V
R827	1-247-874-11	CARBON	62K	5%	1/4W						
R828	1-249-393-11	CARBON	10	5%	1/4W						
R829	1-249-402-11	CARBON	56	5%	1/4W						
R830	1-247-796-11	CARBON	36	5%	1/4W						
R831	1-247-830-11	CARBON	910	5%	1/4W						

When indicating parts by reference number, please include the board name.

DIGITAL VIDEO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
C602	1-164-159-11	CERAMIC	0.1uF	50V	C651	1-126-154-11	ELECT	47uF	20%	6.3V	
C603	1-126-157-11	ELECT	10uF	20%	16V	C652	1-136-177-00	FILM	1uF	5%	50V
C604	1-164-159-11	CERAMIC	0.1uF	50V	C653	1-164-097-11	CERAMIC	0.022uF	50V		
C605	1-136-153-00	FILM	0.01uF	5%	50V	C654	1-101-880-00	CERAMIC	47PF	5%	50V
C606	1-123-357-00	ELECT	22uF	20%	35V	C655	1-162-199-31	CERAMIC	10PF	5%	50V
C607	1-126-157-11	ELECT	10uF	20%	16V	C656	1-101-880-00	CERAMIC	47PF	5%	50V
C608	1-164-159-11	CERAMIC	0.1uF	50V	C657	1-126-157-11	ELECT	10uF	20%	16V	
C609	1-136-177-00	FILM	1uF	5%	50V	C658	1-164-159-11	CERAMIC	0.1uF	50V	
C610	1-164-097-11	CERAMIC	0.022uF	50V	C659	1-126-157-11	ELECT	10uF	20%	16V	
C611	1-102-971-00	CERAMIC	82PF	5%	50V	C660	1-126-177-11	ELECT	100uF	20%	10V
C612	1-102-963-00	CERAMIC	33PF	5%	50V	C661	1-164-159-11	CERAMIC	0.1uF	50V	
C613	1-126-157-11	ELECT	10uF	20%	16V	C662	1-126-059-11	ELECT	10uF	20%	50V
C614	1-126-177-11	ELECT	100uF	20%	10V	C663	1-126-059-11	ELECT	10uF	20%	50V
C615	1-164-159-11	CERAMIC	0.1uF	50V	C664	1-126-059-11	ELECT	10uF	20%	50V	
C616	1-126-177-11	ELECT	100uF	20%	10V	C665	1-126-059-11	ELECT	10uF	20%	50V
C617	1-164-159-11	CERAMIC	0.1uF	50V	C666	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C618	1-126-154-11	ELECT	47uF	20%	6.3V	C667	1-164-159-11	CERAMIC	0.1uF	50V	
C619	1-164-159-11	CERAMIC	0.1uF	50V	C668	1-123-332-00	ELECT	47uF	20%	25V	
C620	1-126-157-11	ELECT	10uF	20%	16V	C669	1-164-159-11	CERAMIC	0.1uF	50V	
C621	1-136-177-00	FILM	1uF	5%	50V	C670	1-123-332-00	ELECT	47uF	20%	25V
C622	1-164-097-11	CERAMIC	0.022uF	50V	C671	1-164-159-11	CERAMIC	0.1uF	50V		
C623	1-101-880-00	CERAMIC	47PF	5%	50V	C672	1-123-330-00	ELECT	22uF	20%	25V
C624	1-162-199-31	CERAMIC	10PF	5%	50V	C673	1-164-159-11	CERAMIC	0.1uF	50V	
C625	1-101-880-00	CERAMIC	47PF	5%	50V	C674	1-123-330-00	ELECT	22uF	20%	25V
C626	1-126-157-11	ELECT	10uF	20%	16V	C675	1-164-159-11	CERAMIC	0.1uF	50V	
C627	1-126-177-11	ELECT	100uF	20%	10V	C676	1-130-479-00	MYLAR	0.0047uF	5%	50V
C628	1-164-159-11	CERAMIC	0.1uF	50V	C677	1-123-332-00	ELECT	47uF	20%	25V	
C629	1-126-059-11	ELECT	10uF	20%	50V	C678	1-164-159-11	CERAMIC	0.1uF	50V	
C630	1-126-059-11	ELECT	10uF	20%	50V	C679	1-102-951-00	CERAMIC	15PF	5%	50V
C631	1-126-059-11	ELECT	10uF	20%	50V	C680	1-102-963-00	CERAMIC	33PF	5%	50V
C632	1-126-059-11	ELECT	10uF	20%	50V	C681	1-126-157-11	ELECT	10uF	20%	16V
C633	1-130-479-00	MYLAR	0.0047uF	5%	50V	C682	1-126-177-11	ELECT	100uF	20%	10V
C634	1-164-159-11	CERAMIC	0.1uF	50V	C683	1-164-159-11	CERAMIC	0.1uF	50V		
C635	1-123-332-00	ELECT	47uF	20%	25V	C684	1-126-177-11	ELECT	100uF	20%	10V
C636	1-164-159-11	CERAMIC	0.1uF	50V	C685	1-164-159-11	CERAMIC	0.1uF	50V		
C637	1-123-332-00	ELECT	47uF	20%	25V	C686	1-126-154-11	ELECT	47uF	20%	6.3V
C638	1-164-159-11	CERAMIC	0.1uF	50V	C687	1-136-177-00	FILM	1uF	5%	50V	
C639	1-123-330-00	ELECT	22uF	20%	25V	C688	1-164-097-11	CERAMIC	0.022uF	50V	
C640	1-164-159-11	CERAMIC	0.1uF	50V	C689	1-101-880-00	CERAMIC	47PF	5%	50V	
C641	1-123-330-00	ELECT	22uF	20%	25V	C690	1-162-199-31	CERAMIC	10PF	5%	50V
C642	1-164-159-11	CERAMIC	0.1uF	50V	C691	1-101-880-00	CERAMIC	47PF	5%	50V	
C643	1-130-479-00	MYLAR	0.0047uF	5%	50V	C692	1-126-157-11	ELECT	10uF	20%	16V
C644	1-123-332-00	ELECT	47uF	20%	25V	C693	1-164-159-11	CERAMIC	0.1uF	50V	
C645	1-164-159-11	CERAMIC	0.1uF	50V	C694	1-126-157-11	ELECT	10uF	20%	16V	
C646	1-126-157-11	ELECT	10uF	20%	16V	C695	1-126-177-11	ELECT	100uF	20%	10V
C647	1-126-177-11	ELECT	100uF	20%	10V	C696	1-164-159-11	CERAMIC	0.1uF	50V	
C648	1-164-159-11	CERAMIC	0.1uF	50V	C701	1-123-875-11	ELECT	10uF	20%	50V	
C649	1-126-177-11	ELECT	100uF	20%	10V	C702	1-164-159-11	CERAMIC	0.1uF	50V	
C650	1-164-159-11	CERAMIC	0.1uF	50V	C795	1-161-379-00	CERAMIC	0.01uF	20%	25V	

When indicating parts by reference number, please include the board name.

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VIDEO

Ref. No.	Part No.	Description	Remark
C796	1-161-379-00	CERAMIC	0.01uF 20% 25V
C797	1-161-379-00	CERAMIC	0.01uF 20% 25V
C798	1-161-379-00	CERAMIC	0.01uF 20% 25V
C799	1-161-379-00	CERAMIC	0.01uF 20% 25V
			< JACK >

CNJ701 1-562-981-21 JACK (CONTROL S OUT VIDEO 2)
 CNJ702 1-562-981-21 JACK (CONTROL S OUT VIDEO 1)

< CONNECTOR >

CNP401 * 1-564-339-00 PIN, CONNECTOR 5P
 CNP601 * 1-564-506-11 PLUG, CONNECTOR 3P
 CNP602 * 1-564-505-11 PLUG, CONNECTOR 2P
 CNP603 * 1-564-505-11 PLUG, CONNECTOR 2P
 CNP604 * 1-564-505-11 PLUG, CONNECTOR 2P

CNP605 * 1-564-340-00 PIN, CONNECTOR 6P

CNP701 1-564-980-11 PIN, CONNECTOR 4P (CONTROL S OUT TUNER)
 CNP702 1-564-980-11 PIN, CONNECTOR 4P (CONTROL S OUT CD 2)
 CNP703 1-564-980-11 PIN, CONNECTOR 4P (CONTROL S OUT CD 1)
 CNP704 1-564-980-11 PIN, CONNECTOR 4P (CONTROL S OUT TAPE 2)
 CNP705 1-564-980-11 PIN, CONNECTOR 4P (CONTROL S OUT TAPE 1)

< DIODE >

D601 8-719-988-67 DIODE FC52M-4. 5. 6
 D602 8-719-988-67 DIODE FC52M-4. 5. 6
 D603 8-719-912-20 DIODE 1SS120
 D604 8-719-912-20 DIODE 1SS120
 D605 8-719-912-20 DIODE 1SS120

D606 8-719-912-20 DIODE 1SS120
 D607 8-719-988-67 DIODE FC52M-4. 5. 6
 D608 8-719-912-20 DIODE 1SS120
 D609 8-719-912-20 DIODE 1SS120
 D610 8-719-912-20 DIODE 1SS120

D611 8-719-912-20 DIODE 1SS120
 D612 8-719-988-67 DIODE FC52M-4. 5. 6
 D701 8-719-912-20 DIODE 1SS120
 D702 8-719-912-20 DIODE 1SS120
 D703 8-719-912-20 DIODE 1SS120

D704 8-719-912-20 DIODE 1SS120
 D705 8-719-912-20 DIODE 1SS120
 D706 8-719-912-20 DIODE 1SS120
 D707 8-719-912-20 DIODE 1SS120

< FERRITE BEAD >

FB601 1-410-397-21 FERRITE BEAD INDUCTOR
 FB602 1-410-397-21 FERRITE BEAD INDUCTOR
 FB603 1-410-397-21 FERRITE BEAD INDUCTOR
 FB604 1-410-397-21 FERRITE BEAD INDUCTOR
 FB605 1-410-397-21 FERRITE BEAD INDUCTOR
 FB701 1-410-397-21 FERRITE BEAD INDUCTOR

Ref. No.	Part No.	Description	Remark
FB702	1-410-397-21	FERRITE BEAD INDUCTOR	
FB703	1-410-397-21	FERRITE BEAD INDUCTOR	
FB704	1-410-397-21	FERRITE BEAD INDUCTOR	
FB705	1-410-397-21	FERRITE BEAD INDUCTOR	
FB706	1-410-397-21	FERRITE BEAD INDUCTOR	
FB707	1-410-397-21	FERRITE BEAD INDUCTOR	

< IC >

IC401 8-759-030-67 IC MC14576AP
 IC402 8-759-030-67 IC MC14576AP
 IC403 8-759-805-15 IC LC7823
 IC601 8-759-927-29 IC SN74HCU04NS
 IC602 8-759-135-80 IC uPC358C
 IC603 8-759-927-29 IC SN74HCU04NS
 IC604 8-752-336-78 IC CXD2520Q
 IC605 8-759-822-79 IC LC3517RM-15
 IC606 8-759-135-80 IC uPC358C
 IC607 8-759-927-29 IC SN74HCU04NS

IC608 8-759-634-51 IC M5218AP
 IC609 8-759-504-36 IC CS5339-KP
 IC610 8-759-927-29 IC SN74HCU04NS
 IC611 8-752-336-78 IC CXD2520Q
 IC612 8-759-822-79 IC LC3517RM-15

IC613 8-759-135-80 IC uPC358C
 IC614 8-759-927-29 IC SN74HCU04NS
 IC615 8-759-634-51 IC M5218AP
 IC616 8-759-504-36 IC CS5339-KP
 IC617 8-759-927-29 IC SN74HCU04NS

IC618 8-752-336-78 IC CXD2520Q
 IC619 8-759-822-79 IC LC3517RM-15
 IC620 8-759-135-80 IC uPC358C
 IC621 8-759-927-29 IC SN74HCU04NS
 IC622 8-759-604-35 IC M5F78M05L

IC623 8-759-982-52 IC RC79M05FA
 IC624 8-749-921-11 IC GP1F32R (DIGITAL INPUT OPTICAL)

< JACK >

J402 1-565-319-11 JACK, PIN 2P (VIDEO 2 IN/OUT)
 J403 1-565-351-21 JACK, PIN 3P
 (VIDEO 1 IN/OUT, MONITOR OUT)

< COIL >

L401 1-410-324-11 INDUCTOR 4. 7uH
 L402 1-410-324-11 INDUCTOR 4. 7uH
 L403 1-410-324-11 INDUCTOR 4. 7uH
 L404 1-410-324-11 INDUCTOR 4. 7uH
 L601 1-410-324-11 INDUCTOR 4. 7uH

When indicating parts by reference number, please include the board name.

DIGITAL **VIDEO**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L602	1-410-324-11	INDUCTOR	4.7uH	R407	1-249-429-11	CARBON	10K 5% 1/4W
L603	1-410-324-11	INDUCTOR	4.7uH	R408	1-249-403-11	CARBON	68 5% 1/4W
L604	1-410-324-11	INDUCTOR	4.7uH	R409	1-249-429-11	CARBON	10K 5% 1/4W
L605	1-410-324-11	INDUCTOR	4.7uH	R410	1-249-403-11	CARBON	68 5% 1/4W
L606	1-410-324-11	INDUCTOR	4.7uH	R411	1-249-429-11	CARBON	10K 5% 1/4W
L607	1-410-324-11	INDUCTOR	4.7uH	R412	1-249-413-11	CARBON	470 5% 1/4W
L608	1-410-324-11	INDUCTOR	4.7uH	R413	1-249-421-11	CARBON	2.2K 5% 1/4W
L609	1-410-324-11	INDUCTOR	4.7uH	R414	1-249-413-11	CARBON	470 5% 1/4W
L610	1-410-324-11	INDUCTOR	4.7uH	R415	1-249-421-11	CARBON	2.2K 5% 1/4W
L611	1-410-324-11	INDUCTOR	4.7uH	R416	1-249-413-11	CARBON	470 5% 1/4W
L612	1-410-324-11	INDUCTOR	4.7uH	R417	1-249-405-11	CARBON	100 5% 1/4W
L613	1-410-324-11	INDUCTOR	4.7uH	R418	1-249-413-11	CARBON	470 5% 1/4W
L614	1-410-324-11	INDUCTOR	4.7uH	R419	1-249-421-11	CARBON	2.2K 5% 1/4W
L615	1-410-324-11	INDUCTOR	4.7uH	R420	1-247-887-00	CARBON	220K 5% 1/4W
L616	1-410-324-11	INDUCTOR	4.7uH	R421	1-249-441-11	CARBON	100K 5% 1/4W
L617	1-410-324-11	INDUCTOR	4.7uH	R422	1-247-887-00	CARBON	220K 5% 1/4W
L618	1-410-324-11	INDUCTOR	4.7uH	R423	1-249-441-11	CARBON	100K 5% 1/4W
L619	1-410-324-11	INDUCTOR	4.7uH	R424	1-249-428-11	CARBON	8.2K 5% 1/4W
L620	1-410-324-11	INDUCTOR	4.7uH	R425	1-247-895-00	CARBON	470K 5% 1/4W
L621	1-410-324-11	INDUCTOR	4.7uH	R426	1-249-422-11	CARBON	2.7K 5% 1/4W
L622	1-410-324-11	INDUCTOR	4.7uH	R427	1-247-887-00	CARBON	220K 5% 1/4W
L623	1-410-324-11	INDUCTOR	4.7uH	R428	1-249-441-11	CARBON	100K 5% 1/4W
L624	1-410-324-11	INDUCTOR	4.7uH	R429	1-249-429-11	CARBON	10K 5% 1/4W
L625	1-410-324-11	INDUCTOR	4.7uH	R601	1-247-804-11	CARBON	75 5% 1/4W
L626	1-410-324-11	INDUCTOR	4.7uH	R602	1-249-437-11	CARBON	47K 5% 1/4W
L701	1-410-324-11	INDUCTOR	4.7uH	R603	1-249-421-11	CARBON	2.2K 5% 1/4W
< TRANSISTOR >				R604	1-249-429-11	CARBON	10K 5% 1/4W
Q401	8-729-119-76	TRANSISTOR 2SA1175-HFE		R605	1-249-429-11	CARBON	10K 5% 1/4W
Q402	8-729-119-76	TRANSISTOR 2SA1175-HFE		R606	1-247-852-11	CARBON	7.5K 5% 1/4W
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE		R607	1-249-421-11	CARBON	2.2K 5% 1/4W
Q404	8-729-119-76	TRANSISTOR 2SA1175-HFE		R608	1-249-429-11	CARBON	10K 5% 1/4W
Q405	8-729-620-05	TRANSISTOR 2SC2603-EF		R609	1-249-431-11	CARBON	15K 5% 1/4W
Q701	8-729-620-05	TRANSISTOR 2SC2603-EF		R610	1-249-429-11	CARBON	10K 5% 1/4W
Q702	8-729-620-05	TRANSISTOR 2SC2603-EF		R611	1-249-429-11	CARBON	10K 5% 1/4W
Q703	8-729-620-05	TRANSISTOR 2SC2603-EF		R612	1-247-852-11	CARBON	7.5K 5% 1/4W
Q704	8-729-620-05	TRANSISTOR 2SC2603-EF		R613	1-249-421-11	CARBON	2.2K 5% 1/4W
Q705	8-729-620-05	TRANSISTOR 2SC2603-EF		R614	1-249-429-11	CARBON	10K 5% 1/4W
Q706	8-729-620-05	TRANSISTOR 2SC2603-EF		R615	1-249-431-11	CARBON	15K 5% 1/4W
Q707	8-729-900-63	TRANSISTOR DTA124ES		R616	1-249-429-11	CARBON	10K 5% 1/4W
Q708	8-729-620-05	TRANSISTOR 2SC2603-EF		R617	1-249-429-11	CARBON	10K 5% 1/4W
Q709	8-729-900-63	TRANSISTOR DTA124ES		R618	1-249-441-11	CARBON	100K 5% 1/4W
< RESISTOR >				R619	1-249-441-11	CARBON	100K 5% 1/4W
R402	1-247-804-11	CARBON	75 5% 1/4W	R620	1-249-441-11	CARBON	100K 5% 1/4W
R403	1-247-804-11	CARBON	75 5% 1/4W	R621	1-249-441-11	CARBON	100K 5% 1/4W
R404	1-249-403-11	CARBON	68 5% 1/4W	R622	1-249-441-11	CARBON	100K 5% 1/4W
R405	1-249-429-11	CARBON	10K 5% 1/4W	R623	1-249-441-11	CARBON	100K 5% 1/4W
R406	1-249-403-11	CARBON	68 5% 1/4W	R624	1-249-407-11	CARBON	150 5% 1/4W
				R625	1-249-407-11	CARBON	150 5% 1/4W
				R626	1-247-895-00	CARBON	470K 5% 1/4W

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R627	1-249-393-11	CARBON	10	5%	1/4W	R714	1-249-429-11	CARBON	10K	5%	1/4W
R628	1-249-429-11	CARBON	10K	5%	1/4W	R715	1-249-393-11	CARBON	10	5%	1/4W
R629	1-249-429-11	CARBON	10K	5%	1/4W	R716	1-249-429-11	CARBON	10K	5%	1/4W
R630	1-247-852-11	CARBON	7.5K	5%	1/4W	R717	1-249-417-11	CARBON	1K	5%	1/4W
R631	1-249-421-11	CARBON	2.2K	5%	1/4W	R718	1-249-417-11	CARBON	1K	5%	1/4W
R632	1-249-429-11	CARBON	10K	5%	1/4W	R719	1-249-429-11	CARBON	10K	5%	1/4W
R633	1-249-431-11	CARBON	15K	5%	1/4W	R720	1-249-417-11	CARBON	1K	5%	1/4W
R634	1-249-429-11	CARBON	10K	5%	1/4W	R721	1-249-417-11	CARBON	1K	5%	1/4W
R635	1-249-429-11	CARBON	10K	5%	1/4W	< COIL >					
R636	1-249-441-11	CARBON	100K	5%	1/4W	T601	1-460-098-11	COIL (2.2uH)			
R637	1-249-441-11	CARBON	100K	5%	1/4W	T602	1-460-099-11	COIL (3.3uH)			
R638	1-249-441-11	CARBON	100K	5%	1/4W	T603	1-460-099-11	COIL (3.3uH)			
R639	1-249-441-11	CARBON	100K	5%	1/4W	T604	1-460-099-11	COIL (3.3uH)			
R640	1-249-441-11	CARBON	100K	5%	1/4W	< CONNECTOR >					
R641	1-249-441-11	CARBON	100K	5%	1/4W	TP601	* 1-560-060-00	PIN, CONNECTOR 2P			
R642	1-249-407-11	CARBON	150	5%	1/4W	TP602	* 1-560-060-00	PIN, CONNECTOR 2P			
R643	1-249-407-11	CARBON	150	5%	1/4W	TP603	* 1-560-060-00	PIN, CONNECTOR 2P			
R644	1-247-895-00	CARBON	470K	5%	1/4W	TP604	* 1-560-060-00	PIN, CONNECTOR 2P			
R645	1-249-393-11	CARBON	10	5%	1/4W	< CRYSTAL >					
R646	1-249-411-11	CARBON	330	5%	1/4W	XT601	1-579-178-11	VIBRATOR, CRYSTAL (11.2896MHz)			
R647	1-247-903-00	CARBON	1M	5%	1/4W	*****					
R648	1-249-429-11	CARBON	10K	5%	1/4W	* A-4341-456-A PANEL BOARD, COMPLETE					
R649	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R650	1-247-852-11	CARBON	7.5K	5%	1/4W	* A-4341-454-A POWER SUPPLY (1) BOARD, COMPLETE					
R651	1-249-421-11	CARBON	2.2K	5%	1/4W	*****					
R652	1-249-429-11	CARBON	10K	5%	1/4W	* 1-638-076-11 SELECT BOARD					
R653	1-249-431-11	CARBON	15K	5%	1/4W	*****					
R654	1-249-429-11	CARBON	10K	5%	1/4W	* 1-638-078-11 MOTOR VOLUME BOARD					
R655	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R656	1-249-411-11	CARBON	330	5%	1/4W	* 1-638-079-11 TONE BOARD					
R657	1-249-411-11	CARBON	330	5%	1/4W	*****					
R660	1-249-411-11	CARBON	330	5%	1/4W	* 1-638-080-11 MUTING BOARD					
R662	1-249-411-11	CARBON	330	5%	1/4W	*****					
R666	1-249-411-11	CARBON	330	5%	1/4W	* 1-638-081-11 POWER 2 BOARD					
R667	1-249-411-11	CARBON	330	5%	1/4W	*****					
R668	1-249-411-11	CARBON	330	5%	1/4W	* 1-638-082-11 VIDEO (F) BOARD					
R701	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R702	1-249-429-11	CARBON	10K	5%	1/4W	* 1-638-083-11 HEADPHONES BOARD					
R703	1-249-393-11	CARBON	10	5%	1/4W	*****					
R704	1-249-429-11	CARBON	10K	5%	1/4W	* 1-638-084-11 RECEIVE BOARD					
R705	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R706	1-249-393-11	CARBON	10	5%	1/4W	* 1-638-085-11 VOL LED BOARD					
R707	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R708	1-249-429-11	CARBON	10K	5%	1/4W	1-533-225-11 HOLDER, FUSE					
R709	1-249-393-11	CARBON	10	5%	1/4W	1-533-225-11 HOLDER, FUSE					
R710	1-249-429-11	CARBON	10K	5%	1/4W	* 3-309-144-21 HEAT SINK					
R711	1-249-429-11	CARBON	10K	5%	1/4W	* 3-346-266-12 PLATE, GROUND					
R712	1-249-393-11	CARBON	10	5%	1/4W	7-682-548-04 SCREW +BVTT 3X8 (S)					
R713	1-249-429-11	CARBON	10K	5%	1/4W	*****					

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark						
< CAPACITOR >																	
C199	1-164-159-11	CERAMIC	0.1uF		50V	CNP301	* 1-564-506-11	PLUG, CONNECTOR 3P									
C301	1-123-369-00	ELECT	4.7uF	20%	50V	CNP302	* 1-564-506-41	PLUG, CONNECTOR 3P									
C302	1-123-369-00	ELECT	4.7uF	20%	50V	CNP304	* 1-564-337-00	PIN, CONNECTOR 3P									
C303	1-126-059-11	ELECT	10uF	20%	50V	CNP401	* 1-564-517-11	PLUG, CONNECTOR 2P									
C304	1-136-154-00	FILM	0.012uF	5%	50V	CNP402	* 1-564-518-11	PLUG, CONNECTOR 3P									
C305	1-136-154-00	FILM	0.012uF	5%	50V	CNP901	* 1-564-321-00	PIN, CONNECTOR 2P									
C306	1-136-154-00	FILM	0.012uF	5%	50V	CNP902	1-568-106-11	PIN, CONNECTOR 4P									
C307	1-136-154-00	FILM	0.012uF	5%	50V	CNP906	* 1-564-505-11	PLUG, CONNECTOR 2P									
C308	1-130-473-00	MYLAR	0.0015uF	5%	50V	< DIODE >											
C309	1-130-473-00	MYLAR	0.0015uF	5%	50V	D501	8-719-301-52	DIODE SEL2810A-C	(VIDEO 1 LINK)								
C310	1-164-070-11	CERAMIC	100PF	5%	50V	D502	8-719-301-52	DIODE SEL2810A-C	(VIDEO 2 LINK)								
C311	1-164-070-11	CERAMIC	100PF	5%	50V	D503	8-719-301-52	DIODE SEL2810A-C	(TAPE 1 LINK)								
C312	1-164-062-11	CERAMIC	47PF	5%	50V	D504	8-719-301-52	DIODE SEL2810A-C	(TAPE 2/DAT LINK)								
C313	1-164-062-11	CERAMIC	47PF	5%	50V	D505	8-719-301-52	DIODE SEL2810A-C	(CD 1 LINK)								
C314	1-123-380-00	ELECT	1uF	20%	50V	D506	8-719-301-52	DIODE SEL2810A-C	(CD 2 LINK)								
C315	1-123-380-00	ELECT	1uF	20%	50V	D507	8-719-301-52	DIODE SEL2810A-C	(TUNER LINK)								
C316	1-126-059-11	ELECT	10uF	20%	50V	D508	8-719-303-00	DIODE SEL2510C-C	(VIDEO 1 MASTER)								
C317	1-126-059-11	ELECT	10uF	20%	50V	D509	8-719-303-00	DIODE SEL2510C-C	(VIDEO 2 MASTER)								
C318	1-123-369-00	ELECT	4.7uF	20%	50V	D510	8-719-303-00	DIODE SEL2510C-C	(TV/AUX MASTER)								
C319	1-123-369-00	ELECT	4.7uF	20%	50V	D511	8-719-303-00	DIODE SEL2510C-C	(TAPE 1 MASTER)								
C320	1-126-157-11	ELECT	10uF	20%	16V	D512	8-719-303-00	DIODE SEL2510C-C	(TAPE 2/DAT MASTER)								
C321	1-124-273-00	ELECT	3.3uF	20%	50V	D513	8-719-303-00	DIODE SEL2510C-C	(CD 1 MASTER)								
C399	1-161-379-00	CERAMIC	0.01uF	20%	25V	D514	8-719-303-00	DIODE SEL2510C-C	(CD 2 MASTER)								
C501	1-126-157-11	ELECT	10uF	20%	16V	D515	8-719-303-00	DIODE SEL2510C-C	(TUNER MASTER)								
C502	1-164-159-11	CERAMIC	0.1uF		50V	D516	8-719-301-38	DIODE SEL2210S-C	(VIDEO 1 REC)								
C503	1-126-157-11	ELECT	10uF	20%	16V	D517	8-719-301-38	DIODE SEL2210S-C	(VIDEO 2 REC)								
C504	1-164-159-11	CERAMIC	0.1uF		50V	D518	8-719-301-38	DIODE SEL2210S-C	(TAPE 1 REC)								
C901	▲ 1-161-744-00	CERAMIC	0.01uF		400V	D519	8-719-301-38	DIODE SEL2210S-C	(TAPE 2/DAT REC)								
C902	▲ 1-136-279-11	FILM	0.047uF	20%	250V	D520	8-719-301-49	DIODE SEL2810A	(PRIORITY)								
C917	1-101-004-00	CERAMIC	0.01uF		50V	D521	8-719-301-39	DIODE SEL2210S-TH10	(ERROR)								
C918	1-101-004-00	CERAMIC	0.01uF		50V	D522	8-719-301-49	DIODE SEL2810A	(ADAPTOR)								
C919	1-124-557-11	ELECT	1000uF	20%	25V	D523	8-719-303-00	DIODE SEL2510C-C	(VIDEO 3)								
C920	1-123-875-11	ELECT	10uF	20%	50V	D524	8-719-301-39	DIODE SEL2210S-TH10	(STANDBY)								
C921	1-164-073-11	CERAMIC	100PF	10%	50V	D525	8-719-301-49	DIODE SEL2810A	(-20dB)								
C922	1-124-477-11	ELECT	47uF	20%	25V	D526	8-719-912-20	DIODE 1SS120									
C923	1-123-875-11	ELECT	10uF	20%	50V	D527	8-719-912-20	DIODE 1SS120									
C924	1-124-464-11	ELECT	0.22uF	20%	50V	D528	8-719-912-20	DIODE 1SS120									
C925	1-124-902-00	ELECT	0.47uF	20%	50V	D529	8-719-303-00	DIODE SEL2510C-C	(VOLUME)								
C926	1-101-004-00	CERAMIC	0.01uF		50V	D714	8-719-118-33	PHOTODIODE PH302D									
< CONNECTOR >																	
CNJ301	1-569-348-11	JACK, LARGE TYPE (HEADPHONES)				D909	8-719-200-82	DIODE 11ES2									
CNJ901	▲ 1-540-061-11	OUTLET, AC (POLAR)				D910	8-719-200-82	DIODE 11ES2									
CNJ902	▲ 1-540-061-11	OUTLET, AC (POLAR)				D911	8-719-200-82	DIODE 11ES2									
						D912	8-719-200-82	DIODE 11ES2									
						D917	8-719-912-20	DIODE 1SS120									
						D918	8-719-912-20	DIODE 1SS120									

Note:

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

PANEL

POWER SUPPLY (1)

SELECT

MOTOR VOLUME

TA-DM1000ES

TONE

MUTING

POWER 2

VIDEO (F)

HEADPHONES

RECEIVE

VOL LED

Ref. No.	Part No.	Description		Remark		Ref. No.	Part No.	Description		Remark		
D919	8-719-912-20	DIODE	1SS120			R309	1-249-435-11	CARBON	33K	5%	1/4W	
D920	8-719-933-41	DIODE	HZS6C3L			R310	1-249-435-11	CARBON	33K	5%	1/4W	
D921	8-719-933-41	DIODE	HZS6C3L			R311	1-249-435-11	CARBON	33K	5%	1/4W	
D922	8-719-914-11	DIODE	HZ4ALL			R312	1-249-435-11	CARBON	33K	5%	1/4W	
D923	8-719-912-20	DIODE	1SS120			R313	1-249-428-11	CARBON	8.2K	5%	1/4W	
< IC >												
IC301	8-759-634-51	IC	M5218AP			R314	1-249-428-11	CARBON	8.2K	5%	1/4W	
IC302	8-759-820-62	IC	LB1639			R315	1-249-417-11	CARBON	1K	5%	1/4W	
IC501	8-759-635-95	IC	M66313FP			R316	1-249-417-11	CARBON	1K	5%	1/4W	
IC502	8-749-922-36	IC	GP1U50XB			R401	1-247-804-11	CARBON	75	5%	1/4W	
IC901	8-759-604-39	IC	M5F78M12L			R501	1-249-414-11	CARBON	560	5%	1/4W	
IC902	8-759-604-45	IC	M5F79M12L			R502	1-249-414-11	CARBON	560	5%	1/4W	
IC905	8-759-604-29	IC	M5F7805L			R503	1-249-414-11	CARBON	560	5%	1/4W	
IC906	8-759-634-32	IC	M5278D15			R504	1-249-414-11	CARBON	560	5%	1/4W	
< JACK >												
J401	1-563-136-31	JACK, PIN	3P (VIDEO 3 VIDEO, AUDIO L/R)			R507	1-249-414-11	CARBON	560	5%	1/4W	
< COIL >												
L501	1-410-324-11	INDUCTOR		4.7uH		R508	1-249-410-11	CARBON	270	5%	1/4W	
L502	1-410-324-11	INDUCTOR		4.7uH		R509	1-249-410-11	CARBON	270	5%	1/4W	
< TRANSISTOR >												
Q301	8-729-141-30	TRANSISTOR	2SC3623A-LK			R510	1-249-410-11	CARBON	270	5%	1/4W	
Q302	8-729-141-30	TRANSISTOR	2SC3623A-LK			R511	1-249-410-11	CARBON	270	5%	1/4W	
Q305	8-729-900-61	TRANSISTOR	DTA114ES			R512	1-249-410-11	CARBON	270	5%	1/4W	
Q501	8-729-900-80	TRANSISTOR	DTC114ES			R513	1-249-410-11	CARBON	270	5%	1/4W	
Q901	8-729-620-05	TRANSISTOR	2SC2603-EF			R514	1-249-410-11	CARBON	270	5%	1/4W	
Q902	8-729-209-15	TRANSISTOR	2SD2012			R515	1-249-410-11	CARBON	270	5%	1/4W	
Q903	8-729-119-76	TRANSISTOR	2SA1175-HFE			R516	1-249-417-11	CARBON	1K	5%	1/4W	
Q904	8-729-620-05	TRANSISTOR	2SC2603-EF			R517	1-249-417-11	CARBON	1K	5%	1/4W	
Q905	8-729-119-76	TRANSISTOR	2SA1175-HFE			R518	1-249-417-11	CARBON	1K	5%	1/4W	
Q906	8-729-900-63	TRANSISTOR	DTA124ES			R519	1-249-417-11	CARBON	1K	5%	1/4W	
Q907	8-729-620-05	TRANSISTOR	2SC2603-EF			R520	1-249-414-11	CARBON	560	5%	1/4W	
Q908	8-729-900-89	TRANSISTOR	DTC114ES			R521	1-249-417-11	CARBON	1K	5%	1/4W	
< RESISTOR >												
R166	1-249-417-11	CARBON		1K	5%	1/4W	R522	1-249-414-11	CARBON	560	5%	1/4W
R167	1-249-417-11	CARBON		1K	5%	1/4W	R523	1-249-415-11	CARBON	680	5%	1/4W
R223	1-247-887-00	CARBON		220K	5%	1/4W	R524	1-249-417-11	CARBON	1K	5%	1/4W
R224	1-247-887-00	CARBON		220K	5%	1/4W	R525	1-249-414-11	CARBON	560	5%	1/4W
R302	1-249-421-11	CARBON		2.2K	5%	1/4W	R526	1-249-411-11	CARBON	330	5%	1/4W
R304	1-249-441-11	CARBON		100K	5%	1/4W	R527	1-249-429-11	CARBON	10K	5%	1/4W
R305	1-249-417-11	CARBON		1K	5%	1/4W	R528	1-249-429-11	CARBON	10K	5%	1/4W
R306	1-249-417-11	CARBON		1K	5%	1/4W	R529	1-249-429-11	CARBON	10K	5%	1/4W
R307	1-249-405-11	CARBON		100	5%	1/4W	R530	1-249-429-11	CARBON	10K	5%	1/4W
R308	1-249-405-11	CARBON		100	5%	1/4W	R531	1-249-429-11	CARBON	10K	5%	1/4W
R166												
R532	1-249-429-11	CARBON					R532	1-249-429-11	CARBON	10K	5%	1/4W
R533	1-249-429-11	CARBON					R533	1-249-429-11	CARBON	10K	5%	1/4W
R534	1-249-429-11	CARBON					R534	1-249-429-11	CARBON	10K	5%	1/4W
R535	1-249-429-11	CARBON					R535	1-249-429-11	CARBON	10K	5%	1/4W
R536	1-249-429-11	CARBON					R536	1-249-429-11	CARBON	10K	5%	1/4W
R780	1-249-429-11	CARBON					R780	1-249-429-11	CARBON	10K	5%	1/4W
R781	1-249-423-11	CARBON					R781	1-249-423-11	CARBON	3.3K	5%	1/4W
R782	1-249-423-11	CARBON					R782	1-249-423-11	CARBON	3.3K	5%	1/4W
R783	1-249-423-11	CARBON					R783	1-249-423-11	CARBON	3.3K	5%	1/4W

When indicating parts by reference number, please include the board name.

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par
une marque  sont critiques
pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spéci-
fique.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark
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HARDWARE LIST

#1	7-682-547-09	SCREW +BVTT 3X6 (S)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-646-79	SCREW, TAPPING	
#4	7-683-255-58	SET SCREW 5X6 HEXAGON SOCKET	
#5	7-682-548-04	SCREW +BVTT 3X8 (S)	
#6	7-682-549-04	SCREW +BVTT 3X10 (S)	
#7	7-682-560-04	SCREW +BVTT 4X6 (S)	
#8	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
#9	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

When indicating parts by reference number, please include the board name.

TA-DM1000ES

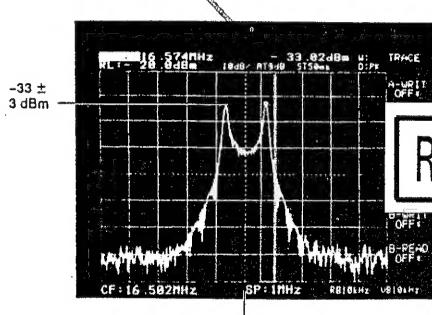
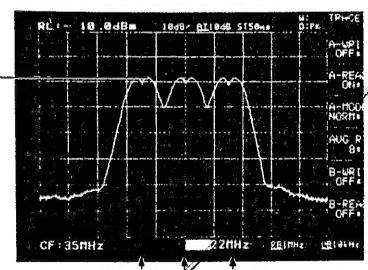
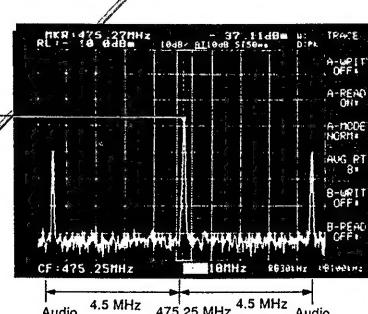
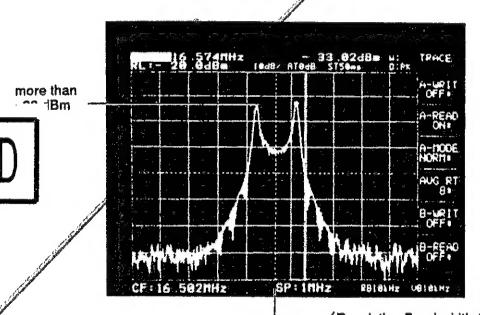
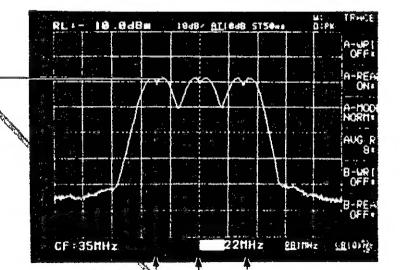
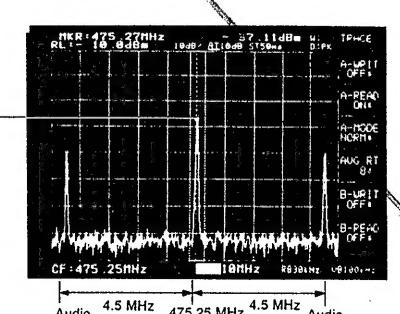
SONY SERVICE MANUAL

US Model
Canadian Model

CORRECTION-1

Please correct your service manual.

 : Corrected portion

Page	Incorrect	Correct
30	<p>[RX Adjustment]</p> <p>Adjusting method:</p> <ol style="list-style-type: none"> 1. Disconnect CNP807 (+15V) from the board. 2. Connect signal generator to "TO DST SIGNAL COMBINER" terminal and input the 5 MHz rectangular waveform (carrier: 15.5 MHz, level: -60 dBm, deviation: 75 kHz, impedance: 75Ω). 	<p>[RX Adjustment]</p> <p>Adjusting method:</p> <ol style="list-style-type: none"> 1. Disconnect CNP807 (+15V) from the board. 2. Connect signal generator to "TO DST SIGNAL COMBINER" terminal and input the <u>5</u> <u>KHz</u> rectangular waveform (carrier: 15.5 MHz, level: -60 dBm, deviation: 75 kHz, impedance: 75Ω).
31	<p>• Remote control signal</p>  <p>• PCM digital signal</p>  <p>• Video/audio signal</p> 	<p>• Remote control signal</p>  <p>more than -33 ± 1 dBm</p> <p>• PCM digital signal</p>  <p>more than -36 ± 1 dBm</p> <p>• Video/audio signal</p>  <p>(Resolution Band width (RB) : 10 kHz (Video Band width (VB) : 10 kHz)</p> <p>(Resolution Band width (RB) : 30 kHz (Video Band width (VB) : 100 kHz)</p>

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43		
44		
62		
64		

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65																																																																																																																									
67																																																																																																																									
Schematic Diagram 73-74 Part List 85, 87	<p>Constant change</p> <table> <tbody> <tr> <td>C811</td><td>1-164-027-11 CERAMIC</td><td>22PF</td><td>5%</td><td>50V</td><td>C811</td><td>1-164-052-11 CERAMIC</td><td>18PF</td><td>5%</td><td>50V</td></tr> <tr> <td>C812</td><td>1-162-284-11 CERAMIC</td><td>150PF</td><td>5%</td><td>50V</td><td>C812</td><td>1-162-280-31 CERAMIC</td><td>82PF</td><td>5%</td><td>50V</td></tr> <tr> <td>C813</td><td>1-162-283-11 CERAMIC</td><td>120PF</td><td>5%</td><td>50V</td><td>C813</td><td>1-162-219-31 CERAMIC</td><td>68PF</td><td>5%</td><td>50V</td></tr> <tr> <td>C824</td><td>1-164-027-11 CERAMIC</td><td>22PF</td><td>5%</td><td>50V</td><td>C824</td><td>1-164-023-11 CERAMIC</td><td>15PF</td><td>5%</td><td>50V</td></tr> <tr> <td>C825</td><td>1-162-283-11 CERAMIC</td><td>120PF</td><td>5%</td><td>50V</td><td>C825</td><td>1-162-217-31 CERAMIC</td><td>56PF</td><td>5%</td><td>50V</td></tr> <tr> <td>C826</td><td>1-162-283-11 CERAMIC</td><td>120PF</td><td>5%</td><td>50V</td><td>C826</td><td>1-162-219-31 CERAMIC</td><td>68PF</td><td>5%</td><td>50V</td></tr> <tr> <td>C837</td><td>1-164-027-11 CERAMIC</td><td>22PF</td><td>5%</td><td>50V</td><td>C837</td><td>1-164-035-11 CERAMIC</td><td>47PF</td><td>5%</td><td>50V</td></tr> <tr> <td>C838</td><td>1-162-282-11 CERAMIC</td><td>100PF</td><td>5%</td><td>50V</td><td>C838</td><td>1-162-217-31 CERAMIC</td><td>56PF</td><td>5%</td><td>50V</td></tr> <tr> <td>C839</td><td>1-162-283-11 CERAMIC</td><td>120PF</td><td>5%</td><td>50V</td><td>C839</td><td>1-162-215-31 CERAMIC</td><td>47PF</td><td>5%</td><td>50V</td></tr> </tbody> </table> <p>※ Check all of three constants when replacing parts. Even if any one of constants is not changed, oscillation may not be obtained.</p> <table> <tbody> <tr> <td>R828</td><td>1-249-393-11 CARBON</td><td>10</td><td>5%</td><td>1/4W</td><td>R828</td><td>1-249-405-11 CARBON</td><td>100</td><td>5%</td><td>1/4W</td></tr> <tr> <td>R826</td><td>1-249-405-11 CARBON</td><td>100</td><td>5%</td><td>1/4W</td><td>R826</td><td>1-249-393-11 CARBON</td><td>10</td><td>5%</td><td>1/4W</td></tr> <tr> <td>RV801</td><td>1-238-017-11 RES, ADJ, CARBON 22K</td><td></td><td></td><td></td><td>RV801</td><td>1-238-019-11 RES, ADJ, CARBON 47K</td><td></td><td></td><td></td></tr> </tbody> </table>	C811	1-164-027-11 CERAMIC	22PF	5%	50V	C811	1-164-052-11 CERAMIC	18PF	5%	50V	C812	1-162-284-11 CERAMIC	150PF	5%	50V	C812	1-162-280-31 CERAMIC	82PF	5%	50V	C813	1-162-283-11 CERAMIC	120PF	5%	50V	C813	1-162-219-31 CERAMIC	68PF	5%	50V	C824	1-164-027-11 CERAMIC	22PF	5%	50V	C824	1-164-023-11 CERAMIC	15PF	5%	50V	C825	1-162-283-11 CERAMIC	120PF	5%	50V	C825	1-162-217-31 CERAMIC	56PF	5%	50V	C826	1-162-283-11 CERAMIC	120PF	5%	50V	C826	1-162-219-31 CERAMIC	68PF	5%	50V	C837	1-164-027-11 CERAMIC	22PF	5%	50V	C837	1-164-035-11 CERAMIC	47PF	5%	50V	C838	1-162-282-11 CERAMIC	100PF	5%	50V	C838	1-162-217-31 CERAMIC	56PF	5%	50V	C839	1-162-283-11 CERAMIC	120PF	5%	50V	C839	1-162-215-31 CERAMIC	47PF	5%	50V	R828	1-249-393-11 CARBON	10	5%	1/4W	R828	1-249-405-11 CARBON	100	5%	1/4W	R826	1-249-405-11 CARBON	100	5%	1/4W	R826	1-249-393-11 CARBON	10	5%	1/4W	RV801	1-238-017-11 RES, ADJ, CARBON 22K				RV801	1-238-019-11 RES, ADJ, CARBON 47K			
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C824	1-164-027-11 CERAMIC	22PF	5%	50V	C824	1-164-023-11 CERAMIC	15PF	5%	50V																																																																																																																
C825	1-162-283-11 CERAMIC	120PF	5%	50V	C825	1-162-217-31 CERAMIC	56PF	5%	50V																																																																																																																
C826	1-162-283-11 CERAMIC	120PF	5%	50V	C826	1-162-219-31 CERAMIC	68PF	5%	50V																																																																																																																
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